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Annotated Checklist of the Dragonet Families Callionymidae and Draconettidae (Teleostei: Callionymoidei), with Comments on Callionymid Fish Classification

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With 1 figure and 2 tables

Summary

A revised checklist of callionymoid fishes (Perciformes) including the families Callionymidae and Draconettidae is presented. A total of 310 nominal species of callionymoid fishes is included. The family Callionymidae contains 10 valid genera and 182 recent valid species (plus 5 fossil species). In the family Draconettidae, 2 genera with 12 valid species group taxa are known.

Actual scientific names, English names, local names, references to original description and type locality of valid species and synonyms, type specimens, references to type catalogues, geographical distribution, actual classification, reference to source of taxonomic decision, and alternative classifications (if applicable) are given for each species.

Callionymid fish classifications are compared, and a progress report on phylogenetic research is presented, outlining a new classification with several additional subgenera within the large genera *Callionymus* and *Synchiropus* which are supposed to be monophyletic.

Several new distribution records of callionymid and draconettid fish species are included.

Keywords: Checklist; classification; Teleostei; Callionymoidei; Callionymidae; Draconettidae.

Zusammenfassung

Die vorliegende Arbeit enthält eine überarbeitete Checkliste der Fische der Unterordnung Callionymoidei (Ordnung Perciformes: Familien Callionymidae, Draconettidae). Dabei werden 310 nominelle Arten der Unterordnung klassifiziert. Die Familie Callionymidae enthält 10 gültige Gattungen und 182 gültige rezente Arten (sowie 5 fossile Arten). Zwei Gattungen mit 12 gültigen rezenten Arten sind aus der Familie Draconettidae bekannt.

Für jede Art werden der aktuelle wissenschaftliche Name, englische Namen, Lokalnamen, Erstbeschreibungen und Typusfundorte von gültigen Arten und Synonymen, Typusexemplare, Typenkataloge, geographische Verbreitung, die aktuelle Klassifikation, Zitat über die taxonomische Entscheidung und (falls vorhanden) Zitate über alternative Klassifikationen angegeben.

Die Klassifikationen für die Familie Callionymidae werden verglichen. In einem Fortschrittsbericht über Untersuchungen der Phylogenie der Familie wird eine neue Klassifika-

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tion skizziert, in der den großen Gattungen *Callionymus* und *Synchiropus* mehrere zusätzliche Untergattungen (bisher Artengruppen) zugeordnet werden; die Gattungen werden als monophyletisch angesehen.

Mehrere geographische Neufunde von Arten der Familien Callionymidae und Draconettidae werden in der vorliegenden Arbeit erstmalig publiziert.

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1. Introduction

Dragonets of the families Callionymidae and Draconettidae (suborder Callionymoidei) are benthic fishes occurring in the upper 900 metres of all temperate, subtropical and tropical oceans of the world.

Aristoteles (1619; originally written in 4th century B.C.) was the first to use the name *Callionymus* for Mediterranean stargazers (*Uranoscopus scaber*, Uranoscopidae). The first dragonet of the family Callionymidae was described under the name "*Dracunculus*" by Rondeletius (1554: 304–305, fig.), and later by Gessner (1563: 61–62, fig.) under the name "*Dracunculus Aranei* species" and Willughby (1686: 136, pl. H 6) under the name "*Dracunculus*". The record by Rondeletius is based on a specimen of *Callionymus pusillus* Delaroche, 1809. Linnaeus (1758) was the first to use the name *Callionymus* for dragonets (now family Callionymidae) and the name *Uranoscopus* for stargazers (now family Uranoscopidae).

Few species of callionymoid fishes were described before 1830 (Fig. 1); the first major contribution to callionymid fish classification was the world-wide catalogue of Valenciennes in Cuvier & Valenciennes (1837) who included the descriptions of several new species. In the next decade, J. Richardson described several ad-

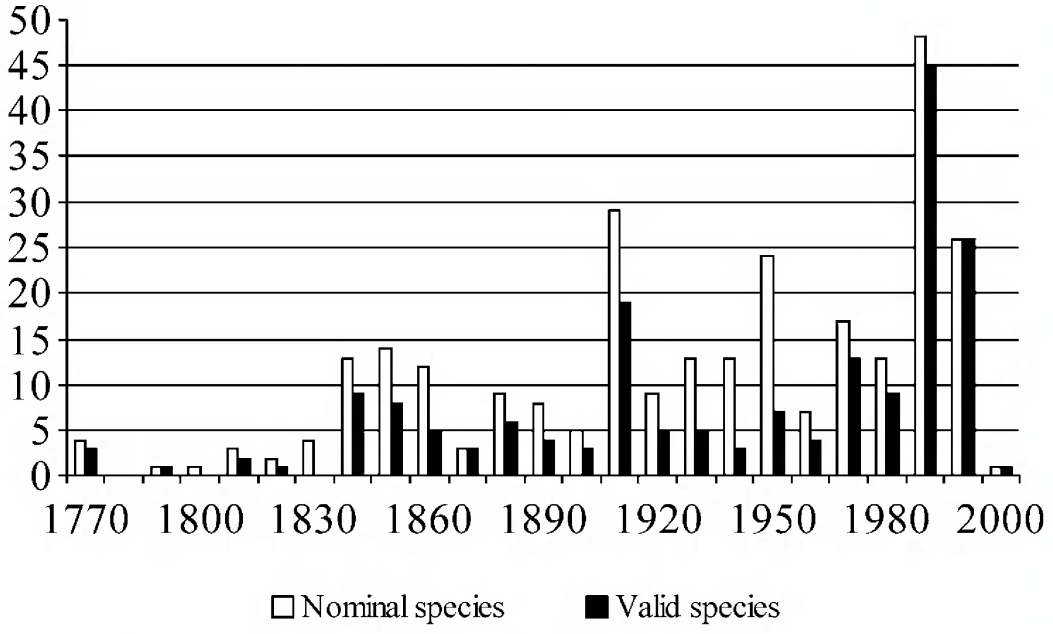

Fig. 1. Number of nominal and valid species of callionymid fishes described in decades since 1758 (data from Tab. 2).

ditional callionymid fish species. Between 1861 and 1880, A. GÜNTHER was the major callionymid fish researcher. Numerous callionymid fishes were described between 1900 and 1910, mainly due to British expeditions in the Indian Ocean (described by C.T. REGAN) and American research in Japan and the Pacific (described by D.S. JORDAN and collaborators). The first world war reduced the intensity of callionymid fish research considerably; it took till 1963 that a significant number of new species was described (SMITH, 1963 in his revision of Western Indian Ocean Callionymidae). Since 1976, two independent revisers worked on the group (T. NAKABO and R. FRICKE), adding as much as 45 valid species in the decade 1981–1990, and 26 valid species in the decade 1991–2000.

The first draconettid fish was described by JORDAN & FOWLER (1903, *Draconetta xenica*) from Japan. Another species described by REGAN (1904: *Draconetta acanthopoma*) from the western North Atlantic was later separated from *D. xenica* on the generic level by REGAN (1913) who described a second genus, *Centrodraco*. This genus was synonymized with *Draconetta* in the first revision of the family (BRIGGS & BERRY, 1959), but later considered as valid. NAKABO (1982a) published another revision, including 7 valid species. FRICKE (1992a) revised the family again and described two new species and a new subspecies; he considered 11 species as valid. Another species of *Centrodraco* was recently described by FRICKE (2002a).

FRICKE (1982c) published a world-wide checklist of callionymid and draconettid fishes. He included 212 recent nominal species of Callionymidae (119 valid species), and 10 recent nominal species of Draconettidae (7 valid species). Since 1982, numerous additional species were described, mainly by T. NAKABO and R. FRICKE. Twenty years after the publication of the first checklist, time has come to publish a revised version of the checklist and reconsider the classification of callionymoid fishes.

Since LINNAEUS (1758), a total of 279 recent and 5 fossil nominal species of Callionymidae, and a total of 17 recent nominal species of Draconettidae have been described. In the present paper, 182 recent and 5 fossil species of Callionymidae, and 12 recent species of Draconettidae are considered valid.

2. Methods, materials and acknowledgements

2.1. Methods

In the checklist, the following information about each valid callionymid and draconettid fish species is presented: **Actual scientific name**; **English name**; **local names** (if applicable); **CAAB Code** (Code for Australian Aquatic Biota; see YEARSLEY, LAST & MORRIS, 1997; some additional codes were provided by G.J. YEARSLEY, personal communication); **reference to original description** and **type locality**; references to original descriptions and type localities of synonyms; **type specimens** (primary types are listed first; number of specimens and type status in parentheses); **type catalogues**; **geographical distribution**; **actual classification**; reference to **source** of **taxonomic decision**; alternative classifications (if applicable).

2.2. Materials

Specimens cited in the present paper are deposited in the following collections:

AMS The Australian Museum, Sydney, Australia;
ANSP The Academy of Natural Sciences, Philadelphia, U.S.A.;
ASIO Academia Sinica, Institute of Oceanography, Quingdao, People's Republic of China;
ASIZB Academia Sinica, Institute of Zoology, Beijing, People's Republic of China;
BKNU Kunsan National University, Department of Biology, Kunsan, Korea;
BMNH Natural History Museum, London, Great Britain (formerly British Museum (Natural History));
BPBM Bernice P. Bishop Museum, Honolulu, U.S.A.;
BSKU Department of Biology, Faculty of Science, Kochi University, Japan;
BSMP Philippine Bureau of Sciences, Manila, Philippines (collection destroyed during WW*II*);
CAS California Academy of Sciences, San Francisco, U.S.A.;
CSIRO Commonwealth Scientific and Industrial Research Organization, Division of Fisheries Research, Hobart, Tasmania, Australia;
FAKU Faculty of Agriculture, Kyoto University, Kyoto, Japan;
FDNR Florida Department of Natural Resources, St Petersburg, Florida, U.S.A.;
FMNH Field Museum of Natural History, Chicago, U.S.A.;
FMRI Central Marine Fisheries Research Institute, Mandapam Camp, India;
GCRL Gulf Coast Research Laboratory Museum, Ocean Springs, Mississippi, U.S.A.;
HUJF Hebrew University of Jerusalem, Fish Collection, Jerusalem, Israel;
HUMZ Hokkaido University, Museum of Zoology, Hakodate, Japan;
IOAN Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia;
IRSN Institut Royal des Sciences Naturelles de Belgique, Bruxelles, Belgium:
KFRS Kanudi Fisheries Research Station, Port Moresby, Papua New Guinea;
MAMU Macleay Museum Sydney, collection now deposited in The Australian Museum, Sydney, Australia;
MCZ Museum of Comparative Zoology, Harvard College, Cambridge, Massachusetts, U.S.A.;
MINB Muséum d'Histoire Naturelle "Grigore Antipa", Bucuresti, Romania;
MMF Museu Municipal do Funchal, Funchal, Madeira, Portugal;
MNHN Muséum National d'Histoire Naturelle, Paris, France;
MSLH Marine Science Laboratory, Chinese University of Hong Kong, People's Republic of China;
MZF Museo Zoologico di Firenze, Florence, Italy;

NMNZ Museum of New Zealand Te Papa Tongarewa, Wellington (formerly Dominion Museum, then National Museum of New Zealand);
NMV National Museum of Victoria, Melbourne, Australia;
NMW Naturhistorisches Museum Wien, Vienna, Austria;
NRM Naturhistoriska Riksmuseet, Stockholm, Sweden;
NSMT-P National Science Museum (Natural History), Tokyo, Japan;
NTM Northern Territory Museum of Arts and Sciences, Darwin, Northern Territory, Australia;
QM Queensland Museum, Brisbane, Australia;
RMNH Nationaal Naturhistorisch Museum (formerly Rijksmuseum van Natuurlijke Historie), Leiden, The Netherlands;
ROM Royal Ontario Museum, Toronto, Canada;
RUSI J.L.B. Smith Institute of Ichthyology, Rhodes University, Grahamstown, South Africa;
SAFI South Atlantic Fisheries Investigations, Brunswick, U.S.A.;
SAM South African Museum, Cape Town, South Africa;
SMF Naturmuseum Senckenberg, Frankfurt/Main, Germany;
SMNS Staatliches Museum für Naturkunde, Stuttgart, Germany;
SMWU Sang Myung Women's University, Seoul, Korea;
SNHM Shanghai Natural History Museum, Shanghai, People's Republic of China;
SU Stanford University Collection, deposited in California Academy of Sciences, San Francisco, U.S.A.;
TAU Tel Aviv University, Tel Aviv, Israel;
TMBS Tatsuo Tanaka Memorial Biological Station, Ako, Miyake-jima, Japan; collection now mainly deposited in NSMT, Tokyo, Japan;
TU Tulane University, U.S.A.;
UBC University of British Columbia, Vancouver, Canada;
UF Florida Museum of Natural History, Gainesville, Florida;
UG University of Guam, UOG Station, Marine Laboratory, Mangilao, Guam;
UMML University of Miami, Marine Laboratory, Institute of Marine Sciences, Miami, Florida, U.S.A.;
URM Department of Marine Science, University of the Ryukyus, Okinawa, Japan;
USNM National Museum of Natural History, Smithsonian Institution, Washington D.C., U.S.A.;
WAM Western Australian Museum, Perth, Australia;
YCM-P Yokosuka City Museum, Yokosuka, Kanagawa, Japan;
YPM Yale University, Peabody Museum, New Haven, Connecticut, U.S.A.;
ZISP Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia;
ZMA Zoölogsch Museum, Universiteit van Amsterdam, Netherlands;
ZMB Zoologisches Museum der Humboldt-Universität, Berlin, Germany;
ZMH Zoologisches Institut und Zoologisches Museum, Universität Hamburg, Germany;
ZMUC Zoologisk Museum, Copenhagen, Denmark;
ZMMU Zoological Museum, Moscow State University, Moscow, Russia;
ZSI Zoological Survey of India, Calcutta, India;
ZUMT Department of Zoology, University Museum, University of Tokyo, Tokyo, Japan.

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3. Callionymid fish classification

The callionymid fish classification in the present checklist is based on taxonomic and phylogenetic studies by FRICKE (1982d, abstract; 1986a: 94–98, figs 33–34, tab.

Tab. 1. Comparison of callionymid fish classifications on the generic level of the present paper (see Appendix 1) with classifications of NAKABO (1982b, 1983c) and FRICKE (1983b, 1986a, 1988, 2000a).

Present classification	**NAKABO (1982b, 1983c)**	**FRICKE (1983b, 1986a, 1988, 2000a)**
Anaora	*Anaora*	*Anaora*
Callionymus	several genera	*Callionymus*
Clade *Callionymus*		
Callionymus (Callionymus)	*Callionymus*	*C.-lyra*-gr.
Callionymus (Repomucenus)	*Repomucenus* (part)	*C.-curvicornis*-gr.
Callionymus (subgen. 1)	*Repomucenus* (part)	*C.-melanotopterus*-gr.
Callionymus (subgen. 2)	not classified	*C.-caeruleonotatus*-gr.
Callionymus (subgen. 3)	*Repomucenus* (part)	*C.-hindsii*-gr.
Callionymus (subgen. 4)	*Paradiplogrammus* (part)	not classified
Callionymus (Bathycallionymus)	*Bathycallionymus*	*C.-kaianus*-gr.

Tab. 1, continued.

Present classification	**NAKABO (1982b, 1983c)**	**FRICKE (1983b, 1986a, 1988, 2000a)**
Callionymus (Paradiplogrammus	*Paradiplogrammus* (part)	*C.-enneactis*-gr.
Callionymus (Callimucenus)	*Repomucenus* (part)	*C.-sagitta*-gr.
Callionymus (Velesionymus)	*Repomucenus* (part)	*C.-acutirostris*-gr.
Clade *Calliurichthys*		
Callionymus (subgen. 5)	*Repomucenus* (part), *Pseudocalliurichthys* (part)	*C.-filamentosus*-gr.
Callionymus (subgen. 6)	*Calliurichthys* (part)	*C.-persicus*-gr.
Callionymus (subgen. 7)	*Calliurichthys* (part)	*C.-margaretae*-gr.
Callionymus (subgen. 8)	*Calliurichthys* (part)	*C.-scabriceps*-gr.
Callionymus (Calliurichthys)	*Calliurichthys* (part)	*C.-japonicus*-gr.
Callionymus (Pseudocalliurichthys)	*Pseudocalliurichthys* (part)	*C.-variegatus*-gr.
Clade *Spinicapitichthys*		
Callionymus (Spinicapitichthys)	*Spinicapitichthys*	*Callionymus (Spinicapitichthys)*
Chalinops	*Diplogrammus* (part)	*Chalinops*
Dactylopus	*Dactylopus*	*Dactylopus*
Diplogrammus	*Diplogrammus* (part)	*Diplogrammus*
Diplogrammus (Diplogrammus)	*Diplogrammus* (part)	*Diplogrammus (Diplogrammus)*
Diplogrammus (Climacogrammus)	*Diplogrammus* (part)	*Diplogrammus (Climacogrammus)*
Diplogrammus (Diplogrammoides)	*Diplogrammus* (part)	*Diplogrammus (Diplogrammoides)*
Draculo	*Draculo* (part)	*Draculo*
Eleutherochir	*Draculo* (part)	*Eleutherochir*
Paracallionymus	*Paracallionymus*	*Paracallionymus*
Protogrammus	not classified	*Protogrammus*
Synchiropus	*several genera*	*Synchiropus*
Synchiropus (Yerutius)	*Foetorepus* (part)	*Synchiropus (Yerutius)*
Synchiropus (Foetorepus)	*Foetorepus* (part)	*S.-altivelis*-gr.
Synchiropus (Synchiropus)	*Synchiropus*	*S.-lineolatus*-gr.
Synchiropus (subgen. 1)	*Neosynchiropus* (part), *Paradiplogrammus* (part)	*S.-ocellatus*-gr.
Synchiropus (subgen. 2)	*Neosynchiropus* (part)	not classified
Synchiropus (Eocallionymus)	*Eocallionymus*	*S.-papilio*-gr.
Synchiropus (Pterosynchiropus)	*Pterosynchiropus*	*S.-splendidus*-gr.
Synchiropus (Minysynchiropus)	*Minysynchiropus*	*S.-postulus*-gr.
Synchiropus (Anaoroides)	not classified	*Synchiropus (Anaoroides)*
Synchiropus (Orbonymus)	*Orbonymus*	*Synchiropus (Orbonymus)*

19; 1988: 414–445, figs 255–260, tabs 1–2), who provided cladograms of callionymid fish genera, as well as Atlantic and Indian Ocean species, and additional osteological information provided by NAKABO (1983c). An alternative classification was suggested by NAKABO (1982b) who made a numerical analysis of callionymid fish phylogeny and described several new genera. NAKABO's classification, however, is rather artificial with the main branching based on a single character, an either long, extended (type B1), short, depressed, angular (type A1a), or short, depressed, rounded (type A1b) urohyal (NAKABO, 1983c: 24–25, 62). The reason for these character states is an adaptation to burying or non-buring behaviour; the urohyal is thus highly adaptive and should be regarded as a relative low value character in phylogeny but is granted an exclusive rank to distinguish main clades in NAKABO's classification. I therefore here continue to use FRICKE's classification. As several additional species were described, the callionymid classification is reconsidered herein; the large genera *Callionymus* and *Synchiropus* are now divided into several additional subgenera. Many of these subgenera are directly corresponding to genera in NAKABO's classification. The reason for the subgeneric status is stability of nomenclature; with a higher rank of these taxa of the genus-group, many species would have to change their generic name. At present, a subgeneric status seems justified as a monophyly of the big clades *Callionymus* on the one hand, and *Synchiropus* on the other hand, is suggested on the basis of preopercular spine and cranial characters. The basis for the subgenera recognized in the present paper are the species-groups as defined by FRICKE (1983b; 1986a; 1988) which are now raised to the subgeneric level. The nomenclature of the subgenera follows NAKABO's generic nomenclature as far as possible. The study of the phylogeny of callionymoids is again under way by the author of the present paper, examining additional, recently described species, including additional techniques like mitochondrial DNA analysis when fresh material is available.

The classification used in the present checklist is shown in Appendix 1. The differences between NAKABO's (1982b) and the present classification, including corresponding names in the present classification and the classifications of NAKABO (1982b, 1983c) and FRICKE (1983b, 1986a, 1988, 2000a), are compared in Tab. 1. The main differences are the 3 clades with 17 subgenera within the genus *Callionymus* in the present classification (corresponding to 3 subgenera in FRICKE's classification, and 7 genera in NAKABO's classification); also the 10 subgenera of the genus *Synchiropus* in the present classification (corresponding to 4 subgenera in FRICKE's classification, and 7 genera in NAKABO's classification).

4. Checklist

4.1. Family Callionymidae

Remarks. In the present checklist, 10 valid genera and 182 valid species of the family Callionymidae are distinguished (Tab. 2). As I know of several undescribed species awaiting description additional to those listed in the present paper, the total number of callionymid fish species will probably equal 200 or more.

Tab. 2. Number of callionymid fish species described in decades since 1758.

Decade	No. Nominal species described	Total nominal species known	No. Valid species described	Total valid species known
(1758–1770)	4	4	3	3
1771–1780	–	4	–	3
1781–1790	1	5	1	4
1791–1800	1	6	–	4
1801–1810	3	9	2	6
1811–1820	2	11	1	7
1821–1830	4	15	–	7
1831–1840	13	28	9	16
1841–1850	14	42	8	24
1851–1860	12	54	5	29
1861–1870	3	57	3	32
1871–1880	9	66	6	38
1881–1890	8	74	4	42
1891–1900	5	79	3	45
1901–1910	29	108	19	64
1911–1920	9	117	5	69
1921–1930	13	130	5	74
1931–1940	13	143	3	77
1941–1950	24	167	7	84
1951–1960	7	174	4	88
1961–1970	17	191	13	101
1971–1980	13	204	9	110
1981–1990	48	252	45	155
1991–2000	26	278	26	181
(2001–2002)	1	279	1	182

4.1.1. Genus *Anaora* Gray, 1835

Anaora Gray, 1835: unnumbered p., "Directions for arranging the plates" (type species: *Anaora tentaculata* Gray, 1835 by monotypy).
Amora Gray, 1835: pl. 90, fig. 1 (spelling error).

Remarks. Taxonomic decision of FRICKE (1983b: 48–49).

Anaora tentaculata Gray, 1835

Tentacled dragonet

Tanzaku-teguri (Japan) CAAB Code (Australia): 37 427045

Anaora tentaculata Gray, 1835: unnumbered p., "Directions for arranging the plates" (Amboina/Ambon, Maluku, Indonesia, type locality).
Amora tentaculata Gray, 1835: pl. 90, figs 1, 1 A-B (spelling error; Amboina/Ambon, Maluku, Indonesia, type locality).
Callionymus inversicoloratus Seale, 1910: 538–539 (Samal Island/Davao Gulf, Mindanao, Philippines, type locality).
Synchiropus tentaculatus Herre, 1928: 33–35, pl. 1 (Puerto Galera, Mindoro, Philippines, type locality; secondary homonym of *Anaora tentaculata* Gray, 1835).
Callionymus fimbriatus Herre, 1934: 94 (Sitankai Reef/Sulu Province, Philippines, type locality).
Anaora fowleri Herre, 1953: 781 (replacement name for *Synchiropus tentaculatus* Herre, 1928; Puerto Galera, Mindoro, Philippines, type locality).

Types. *Anaora tentaculata* Gray, 1835: No type material available. – *Callionymus inversicoloratus* Seale, 1910: Holotype was deposited in BSMP, but destroyed during WW II. – *Synchiropus tentaculatus* Herre, 1928: Holotype and 1 paratype were deposited in BSMP, but destroyed during WW II. – *Callionymus fimbriatus* Herre, 1934: SU 25516 (holotype). – *Anaora fowleri* Herre, 1953: Holotype and 1 paratype were deposited in BSMP, but destroyed during WW II. – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 58, SU).

Distribution. Ryukyu Islands; Indonesia (Kalimantan; Sulawesi; Maluku); Philippines; Palau/Belau; Federated States of Micronesia (Yap); Guam; Western Australia (Ashmore Reef); Papua New Guinea (Madang).

Remarks. Taxonomic decision of Fricke (1983b: 49–55; 2000a: 4; 2000b: 634).

4.1.2. Genus *Callionymus* Linnaeus, 1758

Callionymus Linnaeus, 1758: 249 (type species: *Callionymus lyra* Linnaeus, 1758 by subsequent designation of Jordan, 1917: 12).
Calliurichthys Jordan & Fowler, 1903: 941 (type species: *Callionymus japonicus* Houttuyn, 1782 by original designation).
Tetracuspidatus Buen, 1926: 85 (as a "grupo" for two species of *Callionymus*; not available according to Eschmeyer, 1998: 2148).
Tricuspidatus Buen, 1926: 86 (as a "grupo" for two species of *Callionymus*; not available according to Eschmeyer, 1998: 2156).
Bicuspidatus Buen, 1926: 87 (as a "grupo" for a species of *Callionymus*; not available according to Eschmeyer, 1998: 1864).
Repomucenus Whitley, 1931b: 323 (type species: *Callionymus calcaratus* Macleay, 1881 by original designation).
Callimucenus Whitley, 1934: 418 (type species: *Callionymus macdonaldi* Ogilby, 1911 by original designation).
Velesionymus Whitley, 1934: 418 (type species: *Callionymus limiceps* Ogilby, 1918 by original designation).
Spinicapitichthys Fricke, 1980: 60–61 (as subgenus; type species: *Callionymus spiniceps* Regan, 1908 by original designation).
Bathycallionymus Nakabo, 1982b: 86–87 (type species: *Callionymus kaianus* Günther, 1880 by original designation).
Paradiplogrammus Nakabo, 1982b: 95–96 (type species: *Callionymus enneactis* Bleeker, 1879 by original designation).
Pseudocalliurichthys Nakabo, 1982b: 104–105 (type species: *Callionymus variegatus* Temminck & Schlegel, 1845 by original designation).

Remarks. Taxonomic decision of Fricke (1983b: 55–58).

Callionymus aagilis Fricke, 1999
Slow dragonet

Callionymus aagilis Fricke, 1999a: 491–493, fig. 9 (Réunion).
Type. *Callionymus aagilis* Fricke, 1999: MNHN 1966–0833 (holotype).

Distribution. Réunion.

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of Fricke (1999a: 491–493; 2000a: 57, 64).

Callionymus acutirostris Fricke, 1981
Pointed dragonet

Callionymus acutirostris Fricke, 1981f: 153–157, fig. 7 (2.5 miles west of Calaguaguin Cove, Luzon Island, Zambales, Philippines, 44–35 fms (81–64 m) depth, type locality).

Type. *Callionymus acutirostris* Fricke, 1981: CAS 32642 (holotype). – **Type catalogue**: Fricke (1982b: 60).

Distribution. Philippines (Zambales, Luzon Island). Known only from the holotype.

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1981f: 153–157; 1983b: 60–62; 2000b: 634).

Callionymus afilum Fricke, 2000
Northern Australian longtail dragonet
CAAB Code (Australia): 37 427008

Callionymus afilum Fricke, 2000a: 48–52, fig. 24 (Arafura Sea, Northern Territory, Australia, type locality; Western Australia, Queensland/Australia, Papua New Guinea).

Types. *Callionymus afilum* Fricke, 2000: AMS I.21943–004 (holotype); AMS I.21842–028 (4 paratypes); AMS I.21943–021 (1 paratype); CSIRO 754 (1 paratype); CSIRO H.745–02 (1 paratype); CSIRO H.1466–01 (1 paratype); CSIRO H.1479–01 (1 paratype); CSIRO H.4643–02 (1 paratype); KFRS F.01705 (1 paratype); SMNS 21375 (2 paratypes).

Distribution. Papua New Guinea; Australia (Western Australia; Northern Territory; Torres Strait/Queensland).

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of Fricke (2000a: 4, 48–52).

Callionymus africanus (Kotthaus, 1977)
African deepwater dragonet

Diplogrammus africanus Kotthaus, 1977: 38–40, figs 421–422, 423 A, 424 A (part: northeast of Mombasa, Kenya, 1°18'S 41°56'E – 1°19.8'S 41°53'E, 220–178 m depth, type locality).

Types. *Diplogrammus africanus* Kotthaus, 1977: ZMH 5533 (holotype); ZMH 5534 (30 paratypes). – **Type catalogue**: Wilkens & Dohse (1993: 419, ZMH).

Distribution. Kenya; Tanzania (Zanzibar); Seamount on Chain Ridge, 06°58'N 52°05'E. The species has been recorded from depths of 183–212 m.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 364–366; 1983b: 64–69; 1984b: 4; 1988: 135–137).

Callionymus altipinnis Fricke, 1981
Highfin deepwater dragonet

Callionymus altipinnis Fricke, 1981e: 373–375, fig. 18 (Hong Kong fish market/People's Republic of China, type locality).

Types. *Callionymus altipinnis* Fricke, 1981: MSLH 0001 (holotype); CAS 46967 (10 paratypes); CAS 46968 (1 paratype); CAS 46969 (1 paratype).

Distribution. People's Republic of China (South China Sea); Taiwan; Vietnam (Gulf of Tonkin).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 373–375; 1983b: 69–71; 2000a: 54; 2000b: 634); Fricke & Wu (1986: 11; 1992: 7). Alternative classification as *Bathycallionymus altipinnis* by Nakabo (1982b: 79).

Callionymus amboina Suwardji, 1965
Ambon darter dragonet

Callionymus amboina Suwardji, 1965: 311–312, pl. 47, fig. 2 (Ambon/Maluku, Indonesia, ca. 50 m depth, type locality).

Type. *Callionymus amboina* Suwardji, 1965: ZMUC P.64109 (holotype). – **Type catalogue**: NIELSEN (1974: 71, ZMUC).

Distribution. Indonesia (Ambon, Maluku). The species was collected at depths of 8–50 m.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of FRICKE (1983b: 72–77).

Callionymus annulatus Weber, 1913
Weber's darter dragonet
CAAB Code (Australia): 37 427016

Callionymus annulatus Weber, 1913: 523–524, fig. 110 (Madura Straits/Indonesia, 56 m depth, type locality; Timor).
Callionymus bali Suwardji, 1965: 320–322, pl. 48, figs 3–4 (off Bali/Indonesia, 07°30'S 114°38'E, mud and sand bottom, ca. 150 m depth, type locality).

Types. *Callionymus annulatus* Weber, 1913: ZMA 112574–112575 (2 syntypes). – *Callionymus bali* Suwardji, 1965: ZMUC P.6491 (holotype). – **Type catalogues**: FRICKE (1982b: 63); NIELSEN (1974: 71, ZMUC); NIJSSEN, TUJIL & ISBRÜCKER (1982: 95, ZMA).

Distribution. Indonesia (Java; Bali); Timor; Australia (Queensland).

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of FRICKE (1983b: 77–81; 1988: 138–140; 2000a: 4).

Callionymus australis Fricke, 1983
Northwestern Australian sawspine dragonet
CAAB Code (Australia): 37 427013

Callionymus (Calliurichthys) margaretae australis Fricke, 1983b: 402–408, figs 118–119 (northwest of Dampier Archipelago, Western Australia, 19°44'S 116°02'E, 100 m depth, type locality; near Monte Bello Islands/Western Australia; Shark Bay/Western Australia).

Types. *Callionymus (Calliurichthys) margaretae australis* Fricke, 1983: CSIRO B.2200 (holotype); CSIRO B.2201 (1 paratype); CSIRO B.2002 (6 paratypes); CSIRO CA.2142 (1 paratype); WAM P.11841 (1 paratype). – **Type catalogue**: HUTCHINS & SMITH (1991: 38, WAM).

Distribution. Australia (Western Australia).

Remarks. Subgenus *Callionymus* (subgen. 7). Taxonomic decision of FRICKE (2000a: 4, 57).

Callionymus bairdi Jordan in Eigenmann & Eigenmann, 1888
Baird's dragonet

Callionymus bairdi Jordan & Eigenmann in Eigenmann, 1888: 78 (Snapper Banks/off Pensacola, Florida, Gulf of Mexico, U.S.A., type locality; also described as new by JORDAN, 1888: 501–502).
Callionymus boekei Metzelaar, 1919: 149–150, fig. 46 (Wakayo, Playa Grande, Curaçao, type locality).
Callionymus sancti-eustatii Metzelaar, 1919: 150–151, fig. 47 (St. Eustatius, type locality).
Callionymus (Callionymus) sanctaehelenae Fricke, 1983a: 393–398, fig. 1 (off Sugar Loaf, St. Helena, 20–30 fms (36–55 m) depth, type locality).

Types. *Callionymus bairdi* Jordan in Eigenmann & Eigenmann, 1888: USNM 39300 (holotype). – *Callionymus boekei* Metzelaar, 1919: ZMA 112907 (holotype). – *Callionymus sancti-eustatii* Metzelaar, 1919: ZMA 112906 (holotype). – *Callionymus (Callionymus) sanctaehelenae* Fricke, 1983: ZMUC P.64165 (holotype). – **Type catalogue**: NIJSSEN, TUJIL & ISBRÜCKER (1982: 96, ZMA)

Distribution. Canada (Newfoundland, larvae only); U.S.A. (Atlantic coast); Bermuda; Bahamas; Antigua; Cayman Island; St. Eustatius; St. Lucia; Colombia; Curaçao; Brazil; Cape Verde Islands; Ascension Island; St. Helena. **New record** from Cape Verde Islands based on SMNS 21192 (1, Boa Vista Is., 16°05'N 22°50'W, 11 m depth) and SMNS 21193 (1, Porto Velho, Sao Nicolau Island, 16°35'N 24°15'W, 20 m depth). **New record** from Ascension Island based on SMNS 18821 (4, English Bay, White Island, 10–20 m depth).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of FRICKE (1986a: 141–142). Alternative classification as *Paradiplogrammus bairdi* by NAKABO (1982b: 80); as *Paradiplogammus boekei* by NAKABO (1991b: 252).

Callionymus belcheri belcheri Richardson, 1844

Belcher's dragonet

CAAB Code (Australia): 37 427011

Callionymus belcheri Richardson, 1844a: 62–63, pl. 37, figs 1–2 ("The Pacific Ocean"/is probably Australia).

Type. *Callionymus belcheri* Richardson, 1844: BMNH 1855.9.19.311 (holotype).

Distribution. Papua New Guinea (Gulf; East Sepik); Australia (Western Australia; Northern Territory; Queensland).

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1983b: 307–315; 1988: 225–228; 2000a: 4). Alternative classification as *Repomucenus belcheri* by NAKABO (1982b: 81).

Callionymus belcheri recurvispinnis (Li, 1966)

Concave dragonet

Cá chai (Vietnam)

?Callionymus marisinensis Fowler, 1941a: 7–8, fig. 4 (vicinity of Hong Kong/People's Republic of China, 21°44'N 114°48'E, 34 fms (62 m) depth, type locality; Tinakta Island/Philippines).

Calliurichthys recurvispinnis Li, 1966: 171–172, 175–176, fig. 3 (Swamei/Guandong, People's Republic of China, type locality).

Types. *Callionymus marisinensis* Fowler, 1941: USNM 99410 (holotype); USNM 99411 (1 paratype). *Calliurichthys recurvispinnis* Li, 1966: ASIZB 56–8793 (holotype); ASIZB 30083–1 (1 paratype); ASIZB 30083–2 (1 paratype); ASIZB 30084 (1 paratype); ASIZB 33486–33487 (2 paratypes); ASIZB 33489 (1 paratype); ASIZB 33491–33492 (2 paratypes); ASIZB 53–607-6 (1 paratype); ASIZB 56–7159 (1 paratype). – **Type catalogue**: FRICKE (1982b: 63).

Distribution. India (Bay of Bengal); Thailand (Andaman Sea); Malaysia (Strait of Malakka; Sarawak); Indonesia (Sumatera; Java; Sunda Strait); Thailand (Gulf of Thailand); Vietnam; People's Republic of China (South China Sea); Taiwan. The species has been collected at depths of 18–36 m.

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1983b: 316–323; 1988: 229–231; 2000b: 634); FRICKE & WU (1986: 11; 1992: 15–16).

Callionymus beniteguri Jordan & Snyder, 1900

Whitespotted dragonet

Tobi-numeri (Japan)

Callionymus beniteguri Jordan & Snyder, 1900: 370–371, pl. 17 (Tokyo Bay, Japan, type locality).

Callionymus kanekonis Tanaka, 1917: 12 (Nagasaki fish market, Kyushu, Japan, type locality).

Types. *Callionymus beniteguri* Jordan & Snyder, 1900: USNM 49402 (holotype); SU 6278 (3 paratypes). – *Callionymus kanekonis* Tanaka, 1917: ZUMT 7269 (holotype). – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 59).

Distribution. Japan (Hokkaido southward); Korea; People's Republic of China (East China Sea; Hong Kong); Taiwan.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of Fricke (1983b: 81–86; 2000b: 634); Fricke & Wu (1986: 11; 1992: 9–10); Fricke & Zaiser Brownell (1993: 9). Alternative classification as *Repomucenus beniteguri* by Nakabo (1982b: 81; 1983a 238–239; 1993: 996).

Callionymus bentuviai Fricke, 1981
Ben-Tuvia's deepwater dragonet

Diplogrammus africanus Kotthaus, 1977: 39 (part: southern Red Sea material only).
Callionymus bentuviai Fricke, 1981e: 366, fig. 12 (Eritrea/Red Sea).

Types. *Diplogrammus africanus* Kotthaus, 1977: ZMH 5532 (2 paratypes). – *Callionymus bentuviai* Fricke, 1981: HUJF 9935 (holotype); HUJF 8068 (2 paratypes); ZMH 5532 (2 paratypes). – **Type catalogue**: Wilkens & Dohse (1993: 419, ZMH).

Distribution. Eritrea (Red Sea). The species has been collected at depths of 70–75 m depth.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1983b: 87–90; 1984b: 4; 1988: 141–143).

Callionymus bifilum Fricke, 2000
Northwestern Australian deepwater dragonet
CAAB Code (Australia): 37 427038

Callionymus bifilum Fricke, 2000a: 52–56, fig. 26 (Timor Sea, Joseph Bonaparte Gulf, Western Australia, 13°18'S 128°21'E, 84–87 m depth, type locality; Holothuria Bank/Western Australia).

Type. *Callionymus bifilum* Fricke, 2000: CSIRO CA.3532 (holotype).

Distribution. Western Australia (Joseph Bonaparte Gulf; Holothuria Bank).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (2000a: 4, 52–56).

Callionymus bleekeri Fricke, 1983
Bleeker's deepwater dragonet

Callionymus vittatus Schlegel in Beaufort & Chapman, 1951: 67 (Java/Indonesia; name not available, published as reference to an unpublished museum name).
Callionymus (Callionymus) bleekeri Fricke, 1983b: 91–95, fig. 23 (Java, Indonesia).

Type. *Callionymus (Callionymus) bleekeri* Fricke, 1983: RMNH 4872 (holotype).

Distribution. Indonesia (Java). The species is known only from the holotype.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1983b: 91–95; 1988: 144–146; 2000a: 59).

Callionymus brevianalis Fricke, 1983
Small ruddertail dragonet
CAAB Code (Australia): 37 427039

Callionymus (Calliurichthys) brevianalis Fricke, 1983b: 323–328, fig. 98 (Irian Jaya, Hawaii Island, Marchesa Bay, Batanta Islet/Indonesia, 00°49'48"S 130°56'48"E, 0–6 m depth, type locality).

Type. *Callionymus (Calliurichthys) brevianalis* Fricke, 1983: USNM 243038 (holotype).

Distribution. Indonesia (Irian Jaya), Papua New Guinea (Port Moresby), Australia (Queensland), New Caledonia (Grande Terre Group), Vanuatu (Ureparapara).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1990: 9–13; 1993b: 364; 2000a: 10). Alternative classification as *Pseudocalliurichthys brevianalis* by Nakabo, Senou & Aizawa (1998: 454, 455).

Callionymus caeruleonotatus Gilbert, 1905
Hawaiian bluespotted dragonet

Callionymus caeruleonotatus Gilbert, 1905: 648–649, pl. 89 (off east coast of Maui, Hawaiian Islands, 49–176 fms (89–322 m) depth, type locality).

Types. *Callionymus caeruleonotatus* Gilbert, 1905: USNM 51603 (holotype); CAS 108629 (4 paratypes, ex SU 8629); USNM 51668 (3 paratypes); USNM 160483 (1 paratype); USNM 231820 (1 paratype). – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 59).

Distribution. Hawaiian Islands (Maui; Moloka'i).

Remarks. Subgenus *Callionymus* (subgen. 2). Taxonomic decision of Fricke (1983b: 95–99; 2000a: 62); Randall (1998: 188–190).

Callionymus calcaratus Macleay, 1881
Spotted stinkfish
CAAB Code (Australia): 37 427015

Callionymus calcaratus Macleay, 1881: 628 (Port Jackson/New South Wales, Australia, type locality).

Callionymus ocelligena McCulloch, 1926: 207–208, pl. 55, fig. 1 (no locality data; probably Queensland/Australia).

Types. *Callionymus calcaratus* Macleay, 1881: AMS I.16399 (4 syntypes, ex MAMU F.1016). – *Callionymus ocelligena* McCulloch, 1926: AMS E.1568 (holotype). – **Type catalogue**: Fricke (1982b: 59); Stanbury (1969: 209, MAMU).

Distribution. Australia (Queensland; New South Wales; South Australia; Western Australia); Lord Howe Island; Norfolk Island.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of Fricke (1988: 147–150; 2000a: 4). Alternative classification as *Repomucenus calcaratus* by Nakabo (1982b: 81).

Callionymus carebares Alcock, 1890
Indian deepwater dragonet

Callionymus carebares Alcock, 1890: 209, pl. 8, fig. 8 (off Madras coast, India, 18°30'N 84°46'E, 98–102 fms (179–187 m) depth, type locality).

Types. *Callionymus carebares* Alcock, 1890: BMNH 1890.11.280.18–24 (7 syntypes); MNHN 1890-0335–1890-0340 (6 syntypes); ZSI F.12740-F.12741 (2 syntypes); ZSI F.12742 and F.12858 (15 syntypes). – **Type catalogues**: Menon & Yazdani (1968: 151, ZSI); Menon & Rama-Rao (1975: 42, ZSI); Fricke (1982b: 60).

Distribution. Mozambique; Gulf of Aden; Gulf of Oman; Arabian Sea; India; Gulf of Bengal. The species has been collected at depths of 135–330 m. **New record** from Mozambique based on AMS I.28130–001 (1 specimen, 14 mm SL, northeast of Maputo, 24°39.3'S 35°31.2'E, 320–298 m, J. PAXTON & RV Vitiaz II, 22 Nov. 1988).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (1981e: 353–357; 1983b: 105–108; 1984b: 4; 1988: 151–154; 2000a: 59). Alternative classification as *Bathycallionymus carebares* by NAKABO (1982b: 79).

Callionymus colini Fricke, 1993
Tiny New Guinea longtail dragonet

Callionymus colini Fricke, 1993a: 2–4, fig. 1 (Papua New Guinea, Port Moresby, Horseshoe (barrier) reef, 9°30'S 147°10'E, 80 feet (26 m) depth, type locality).

Types. *Callionymus colini* Fricke, 1993: SMNS 12260 (holotype); BPBM 34754 (2 paratypes); SMNS 12261 (1 paratype); SMNS 12263 (2 paratypes). – **Type catalogue**: FRICKE (1995: 6, SMNS).

Distribution. Papua New Guinea (Port Moresby).

Remarks. Subgenus *Callionymus* (subgen. 8). Taxonomic decision of FRICKE (1993a: 2–4).

Callionymus comptus Randall, 1998
Hawaiian ruddertail dragonet

Callionymus comptus Randall, 1998: 190–193, pl. 1 A-B (Hawaiian Islands, O'ahu, Kahe Point, sand patch in reef, 3 m depth, type locality; Maui/Hawaiian Islands).

Types. *Callionymus comptus* Randall, 1998: BPBM 37290 (holotype); BPBM 37612 (1 paratype); BPBM 37243 (1 paratype); BPBM 37849 (1 paratype); NSMT-P 54410 (1 paratype); SMNS 19357 (1 paratype).

Distribution. Hawaiian Islands (O'ahu; Maui).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of RANDALL (1998: 190–193).

Callionymus cooperi Regan, 1908
Cooper's dragonet

Callionymus cooperi Regan, 1908: 247 (Suvadiva and Haddumati Atolls, Maldives, 40–44 fms (73–81 m) depth.

Types. *Callionymus cooperi* Regan, 1908: BMNH 1901.12.31.73–74 (2 syntypes).

Distribution. Maldives.

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE (1983b: 108–113; 1984b: 4; 1988: 154–157). Alternative classification as *Repomucenus cooperi* by NAKABO (1982b: 81).

Callionymus corallinus Gilbert, 1905
Coralline dragonet
Sango-hanabi-numeri (Japan)

Callionymus corallinus Gilbert, 1905: 649–650, fig. 251 (Avau Channel between Maui and Lanai Islands, Hawaiian Islands; 32–37 fms (58–68 m) depth, type locality).

Type. *Callionymus corallinus* Gilbert, 1905: USNM 51581 (holotype). – **Type catalogue**: FRICKE (1982b: 67).

Distribution. Southern Japan (Izu Ocanic Park, Izu Islands); Hawaiian Islands (Midway Atoll; O'ahu; Maui; Moloka'i; Lanai); Australia (Queensland); East Coral Sea (Chesterfield Islands); New Caledonia (Grande Terre); Tonga (Ha'apai Group).

Remarks. Subgenus *Callionymus* (subgen. 4). Taxonomic decision of FRICKE (1983b: 742–745; 1993b: 364–365; 2000a: 10–12), FRICKE & ZAISER BROWNELL (1993: 7–9), who stated that the taxonomic position is not clear, as the species shows characters intermediate between *Callionymus* and *Synchiropus*. Alternative classification as *Paradiplogrammus corallinus* by NAKABO (1991b: 249–253; 1993: 992). Alternative classification as *Synchiropus corallinus* by RANDALL (1996: 151; 1998: 196–198).

Callionymus curvicornis Valenciennes in Cuvier & Valenciennes, 1837

Horn dragonet

Nezumi-gochi (Japan); Dong-gal-yang-tae (Korea)

Callionymus curvicornis Valenciennes in Cuvier & Valenciennes, 1837: 298–299 (Bourbon/Réunion; locality erroneous, specimens most probably originated from China).

Callionymus punctatus Langsdorff in Valenciennes in Cuvier & Valenciennes, 1837: 300 (nomen nudum according to Jordan & Hubbs, 1925; LANGSDORFF had misidentified the callionymid fish specimen as *Platycephalus punctatus* Cuvier).

Callionymus reevesii Richardson, 1844a: 60, pl. 36, fig. 4 (part: China Seas/China, type locality).

Callionymus valenciennei Temminck & Schlegel, 1845: 154 (part: locality not stated/is Nagasaki, Kyushu, Japan).

Callionymus punctatus Richardson, 1846: 210 (Japan, type locality; ex Langsdorff in Valenciennes in Cuvier & Valenciennes, 1837).

Callionymus richardsonii Bleeker, 1854: 414–416 (Nagasaki/Japan, type locality).

Types. *Callionymus curvicornis* Valenciennes in Cuvier & Valenciennes, 1837: MNHN 5469 (holotype). – *Callionymus reevesii* Richardson, 1844: No type material available. – *Callionymus valenciennei* Temminck & Schlegel, 1845: RMNH 1011 (1 paralectotype, as designated by BOESEMAN, 1947: 131–133); RMNH 1013 (1 paralectotype, as designated by BOESEMAN, 1947: 131–133); RMNH 2074 (1 paralectotype, as designated by BOESEMAN, 1947: 131–133); RMNH 2079 (2 paralectotypes, as designated by BOESEMAN, 1947: 131–133). – *Callionymus punctatus* Richardson, 1846: No type material available. – *Callionymus richardsonii* Bleeker, 1854: RMNH 6216 (3 syntypes). – **Type catalogues**: FRICKE (1982b: 60); FRICKE, BAUCHOT & DESOUTTER (1984: 105, MNHN).

Distribution. Japan (southern Hokkaido southward); Korea; People's Republic of China (East China Sea; Hong Kong); Taiwan.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of FRICKE (1983b: 114–122; 2000b: 634); FRICKE & WU (1986: 11; 1992: 7–8). Alternative classification as *Repomucenus richardsonii* by NABAKO (1993: 995).

Callionymus curvispinis Fricke & Zaiser Brownell, 1993

Izu ruddertail dragonet

Chibi-numeri (Japan)

Callionymus curvispinis Fricke & Zaiser Brownell, 1993: 2–4, fig. 1 (Igaya Bay, Miyake-jima, Izu Islands, Japan, 18 m depth, type locality).

Types. *Callionymus curvispinis* Fricke & Zaiser Brownell, 1993: NSMT-P 35106 (holotype); NSMT-P 35107 (1 paratype); NSMT-P 35108 (1 paratype); NSMT-P 35109 (1 paratype); NSMT-P 35110 (2 paratypes); NSMT-P 35111 (1 paratype); SMNS 12078 (1 paratype); SMNS 12079 (2 paratypes). – **Type catalogue**: FRICKE (1995: 6, SMNS).

Distribution. Japan (Izu Islands).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke & Zaiser Brownell (1993: 2–4).

Callionymus decoratus (Gilbert, 1905)

Hawaiian longtail dragonet

Calliurichthys decoratus Gilbert, 1905: 651–652, pl. 90 (Penguin Bank, south of O'ahu/Hawaiian Islands, 27–29 fms (49–53 m) depth, type locality).
Calliurichthys astrinius Jordan & Jordan, 1922: 80–81, pl. 4, fig. 1 (Honolulu Market/O'ahu, Hawaiian Islands, type locality).
Calliurichthys zanectes Jordan & Jordan, 1922: 81–82, pl. 4, fig. 2 (Honolulu Market/O'ahu, Hawaiian Islands, type locality).

Types. *Calliurichthys decoratus* Gilbert, 1905: USNM 51609 (holotype); USNM 51681 (10 paratypes); SU 8632 (4 paratypes). – *Calliurichthys astrinius* Jordan & Jordan, 1922: FMNH 55207 (holotype). – *Calliurichthys zanectes* Jordan & Jordan, 1922: FMNH 55208 (holotype). – **Type catalogues**: Boehlke (1953: 104, SU); Ibarra & Stewart (1987: 20, FMNH).

Distribution. Laysan Island; Midway Islands; Hawaiian Islands (Pearl and Hermes Reef; French Frigate Shoals; O'ahu; Moloka'i; Maui).

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of Fricke (1983b: 328–335; 2000a: 57); Randall (1998: 193–195).

Callionymus delicatulus Smith, 1963

Delicate ruddertail dragonet
CAAB Code (Australia): 37 427037

Callionymus delicatulus Smith, 1963: 557, fig. 6 (Connan Reef, Mahé, Seychelles, shallow sandy areas, type locality).

Types. *Callionymus delicatulus* Smith, 1963: RUSI 143 (holotype); RUSI 4134 (4 paratypes).

Distribution. Red Sea (Egypt; Saudi Arabia; Eritrea); Comores; Madagascar; Amirantes; Seychelles; Maldives; Chagos Archipelago; Palau/Belau; Australia (Western Australia); Solomon Islands (New Georgia; Guadalcanal). **New record** from Amirantes based on ANSP 111336 (1, St. Joseph Island, 05°26'S 53°22'E, 16–28 m depth).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1982a: 141–143; 1983b: 335–338; 1984b: 4; 1988: 232–234; 2000a: 5). Alternative classification as *Pseudocalliurichthys delicatulus* by Nakabo (1982b: 81).

Callionymus doryssus (Jordan & Fowler, 1903)

Japanese filamentous dragonet
Yari-numeri (Japan); Chal-yang-tae (Korea)

Callionymus variegatus Temminck & Schlegel, 1845: 153 (part: Japan/is Nagasaki, Kyushu).
Calliurichthys doryssus Jordan & Fowler, 1903: 945–947, fig. 4 (Misaki/Japan, type locality; also Nagasaki, Wakanoura, Aomori/ Japan).

Types. *Callionymus variegatus* Temminck & Schlegel, 1845: RMNH 2097 (1 paralectotype, as designated by Boeseman, 1947: 131). – *Calliurichthys doryssus* Jordan & Fowler, 1903: SU 7186 (holotype, Misaki); AMS I.6963 (1 paratype); BMNH 1905.2.40.440–442 (3 paratypes, Wakanoura); SU 7745 (21 paratypes, Nagasaki); SU 7941 (3 paratypes, Wakanoura); SU 79593 (3 paratypes, Wakanoura). – **Type catalogue**: Boehlke (1953: 104, SU).

Distribution. Japan (Hokkaido southward); Korea; People's Republic of China (East China Sea; South China Sea); Taiwan; Vietnam; Thailand (Phuket).

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1983b: 338–345; 1988: 235–238; 2000b: 634); FRICKE & WU (1986: 11; 1992: 16–17). Alternative classification as *Repomucenus huguenini* (non Bleeker, 1858) by NAKABO (1982b: 81; 1983a: 230–233).

Callionymus draconis Nakabo, 1977

Japanese spiny dragonet

CAAB Code (Australia): 37 427017

Callionymus draconis Nakabo, 1977: 98–100, figs 1–2 (Mimase Market, Kochi Prefecture/Japan, about 150 m depth, type locality).

Callionymus (Spinicapitichthys) csiro Fricke, 1983b: 457–461, fig. 135 (Western Australia, Carnarvon, 24°04'S 112°52'E, 75.5 fms (138 m) depth, type locality).

Types. *Callionymus draconis* Nakabo, 1977: FAKU 48882 (holotype). – *Callionymus (Spinicapitichthys) csiro* Fricke, 1983b: WAM P.11212 (holotype). – **Type catalogue:** HUTCHINS & SMITH (1991: 38, WAM).

Distribution. Southern Japan; Australia (Western Australia).

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of FRICKE (2000a: 5). Alternative classification as *Spinicapitichthys draconis* by NAKABO (1982b: 82); NAKABO (1983a: 247–248; 1993: 991).

Callionymus enneactis Bleeker, 1879

Mangrove dragonet

Hanabi-numeri, daruma-numeri (Japan)

CAAB Code (Australia): 37 427018

Callionymus enneactis Bleeker, 1879b: 95–97 (Singapura/Singapore; type locality).

Callionymus calliste Jordan & Fowler, 1903: 954–955, fig. 8 (Misaki/Japan, rock pools, type locality).

Callionymus wilburi Herre, 1935: 431 (Waigiu Island/Pulau Waigeo, Irian Jaya, Indonesia, type locality).

Callionymus distethommatus Fowler, 1941a: 18–19, fig. 11 (Cebu Market, Philippines, type locality; Negros, Luzon/Philippines).

Callionymus hudsoni Fowler, 1941a: 8–10, fig. 5 (Pandanan Island/Philippines, type locality; Catanduanes Island; Cebu; Mantacao Island; Luzon/Philippines).

Callionymus altidorsalis Wang & Ye, 1982: 197, 200, fig. 1 (Xincun, Hainan Island, People's Republic of China, type locality).

Paradiplogrammus parvus Nakabo, 1984: 150–155, figs 1–4 (Australia, Queensland, Great Barrier Reef, north of Clack Reef, 14°03'S 144°15'E, 1.5–7.5 m depth, type locality; Gulf of Thailand/Thailand; Ryukyu Islands).

Types. *Callionymus enneactis* Bleeker, 1879: RMNH 4814 (holotype). – Callionymus *calliste* Jordan & Fowler, 1903: SU 7188 (holotype); SU 7742 (1 paratype); SU 7945 (1 paratype). – *Callionymus wilburi* Herre, 1935: FMNH 17491 (holotype); FMNH 17492 (1 paratype); SU 26393 (2 paratypes). – *Callionymus distethommatus* Fowler, 1941: USNM 99426 (holotype); FMNH 48002 (2 paratypes); SU 40196 (1 paratype, Cebu); USNM 99427 (2 paratypes, Cebu); USNM 99428 (3 paratypes, Cebu); USNM 99429 (1 paratype, Cebu); USNM 99430 (2 paratypes, Port Matalvi); USNM 99432 (2 paratypes, Negros). – *Callionymus hudsoni* Fowler, 1941: USNM 99412 (holotype); FMNH 48003 (1 paratype); USNM 99413 (1 paratype, Cebu); USNM 99414 (1 paratype, Mantacao); USNM 99415 (1 paratype, Catanduanes); USNM 99416 (1 paratype, Port San Vincente); USNM 99417 (1 paratype, Cebu). – *Callionymus altidorsalis* Wang & Ye, 1982: SNHM 5440 (holotype); SNHM 5439 (1 paratype); SNHM 5441–5446 (6 paratypes); SNHM uncat. (3 paratypes). – *Paradiplogrammus parvus* Nakabo, 1984: QM I.17256 (holotype); CAS 46879 (1 paratype); CAS 50730 (1 paratype); QM I.15432

(3 paratypes); QM I.17255 (1 paratype); URM P.5195 (1 paratype). – **Type catalogues**: Boehlke (1953: 103, 104, SU); Fricke (1982b: 60, 61); Ibarra & Stewart (1987: 19, 20, FMNH).

Distribution. Japan; People's Republic of China (South China Sea); Taiwan; Thailand (Gulf of Thailand); Singapore; Malaysia; Indonesia (Java; Sulawesi; Timor; Maluku; Irian Jaya); Philippines; Palau/Belau; Federated States of Micronesia (Yap); Guam; Papua New Guinea (Port Moresby; Milne Bay; Hermit Islands; Bougainville); Australia (Western Australia, southward to Shark Bay; Northern Territory; Queensland); New Caledonia (Grande Terre); Loyalty Islands; Solomon Islands (Florida; Tulagi).

Remarks. Subgenus *Callionymus (Paradiplogrammus)*. Taxonomic decision of Fricke (1983b: 122–137; 1988: 157–161; 2000a: 4, 5, 12–14; 2000b: 634); Fricke & Wu (1992: 5–6). Alternative classification as *Paradiplogrammus enneactis enneactis*, *P. enneactis calliste* and *P. parvus* by Nakabo (1984: 150–155). Alternative classification as *Paradiplogrammus enneactis* and *P. parvus* by Nabako (1993: 992).

Callionymus erythraeus Ninni, 1934
Smallhead dragonet

Callionymus erythraeus Ninni, 1934: 55–56, pl. 13 (Isratu Island, Dahlak Archipelago, Red Sea, Eritrea, sandy beach, type locality).

Types. *Callionymus erythraeus* Ninni, 1934: No type material available.

Distribution. Eritrea (Red Sea); Oman; Persian Gulf (Oman; Saudi Arabia; Kuwait); India (Gulf of Mannar).

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1980: 63–72; 1983b: 138–142; 1984b: 4; 1988: 162–164). Alternative classification as *Repomucenus erythraeus* by Nakabo (1982b: 81).

Callionymus fasciatus Valenciennes in Cuvier & Valenciennes, 1837
Banded dragonet

Callionymus fasciatus Valenciennes in Cuvier & Valenciennes, 1837: 285–286 (Sicile/Sicily, Mediterranean Sea, Italy, type locality).

Type. *Callionymus fasciatus* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1529 (holotype). – **Type catalogues**: Fricke (1982b: 61); Fricke, Bauchot & Desoutter (1984: 105, MNHN).

Distribution. Mediterranean Sea (Italy; Croatia); Black Sea (Turkey; Russia).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of Fricke (1986a: 142–143; 1986c: 1087–1088; 1987: 1005). Alternative classification as *Callionymus maculatus* (part: non Rafinesque-Schmaltz, 1810) by Nakabo (1982b: 79).

Callionymus filamentosus Valenciennes in Cuvier & Valenciennes, 1837
Common filamentous dragonet

Blotchfin dragonet (South Africa); Vlekfin-drakie (Afrikaans, South Africa)
CAAB Code (Australia): 37 427040

Callionymus filamentosus Valenciennes in Cuvier & Valenciennes, 1837: 303–305, pl. 359 A-C (Manado, Celebes/North Sulawesi, Indonesia, type locality).

Callionymus longi Fowler, 1941a: 10–11, fig. 6 (Pajumajan Island, Tawi Tawi Group, Sulu Archipelago, Philippines, 05°22'55"N 120°15'45"E, 34 fms (62 m) depth, type locality).

Callionymus brunneus Fowler, 1941a: 11–13, fig. 7 (Balayan Bay, Taal, Philippines, type locality).
Callionymus punctilateralis Fowler, 1941a: 13–14, fig. 8 (Tigbauan, Iloilo Province, Panay Island, Philippines, type locality; Mindanao/Philippines).
Callionymus haifae Fowler & Steinitz, 1956: 285–286, figs 26–32 (Haifa/Israel, type locality).
Callionymus stigmapteron Smith, 1963: 555–556, fig. 4, pl. 86 A (Zanzibar/Tanzania, type locality; Delagoa Bay/Mozambique).

Types. *Callionymus filamentosus* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1556 (2 syntypes). – *Callionymus longi* Fowler, 1941: USNM 99418 (holotype). – *Callionymus brunneus* Fowler, 1941: USNM 99419 (holotype); USNM 99420 (7 paratypes); USNM 99421 (2 paratypes). – *Callionymus punctilateralis* Fowler, 1941: USNM 99422 (holotype); USNM 99423 (1 paratype); USNM 99424 (3 paratypes). – *Callionymus haifae* Fowler & Steinitz, 1956: ANSP 72141 (holotype); ANSP 72142 (1 paratype); ANSP 72143 (1 paratype); HUJF 2137 (1 paratype). – *Callionymus stigmapteron* Smith, 1963: RUSI 152 (holotype); RUSI 152 (2 paratypes). – **Type catalogues**: Boehlke (1984: 32, ANSP); Fricke (1982b: 67, 68); Fricke, Bauchot & Desoutter (1984: 106, MNHN).

Distribution. Red Sea (Egypt; Israel; Sudan; Eritrea); Tanzania; Mozambique; Seychelles; Yemen; Oman; Persian Gulf (Saudi Arabia); India (Bay of Bengal); Sri Lanka; Singapore; Malaysia (Malaya, east coast); Indonesia (Nias; Sumatera; Java; Sulawesi; Timor; Maluku); Thailand (Gulf of Thailand); Vietnam; People's Republic of China (South China Sea; Hong Kong); Taiwan; Philippines; Papua New Guinea (Gulf; Port Moresby; Milne Bay); Australia (Western Australia); Vanuatu (Santa Maria; Ambrym). Immigrated into eastern Mediterranean Sea (Israel; Lebanon) through Suez Canal; meanwhile disppeared again in most Mediterranean areas (D. Golani, HUJF, personal communication). The species lives on sand or mud bottoms from the shore to depths of 100 m. **New record** from Seychelles based on ANSP 109304 (1, Mahé). **New record** from Vanuatu based on AMS I.37916–008 (1, Santa Maria Island, 14°22.20'S 167°29'E, 8 m depth); AMS I.37937–011 (3, Ambrym, 16°08.26'S 168°07.00'E, 9 m depth).

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of Fricke (1983b: 346–360; 1984b: 4; 1986a: 153–154; 1986b: 771; 1986c: 1088; 1987: 1005; 1988: 239–243; 2000a: 5; 2000b: 634; 2001a: 3557); Fricke & Wu (1986: 11; 1992: 16). Alternative classification as *Repomucenus filamentosus*, *R. longi*, *R. brunneus*, and *R. punctilateralis* by Nakabo (1982b: 81).

Callionymus flavus Fricke, 1983
Yellow ruddertail dragonet

Callionymus (Calliurichthys) flavus Fricke, 1983b: 360–365, fig. 110 (reef on north side of Jeddah/Jidda Harbour, Saudi Arabia, Red Sea, 6–25 feet (2–8 m) depth, type locality).

Types. *Callionymus (Calliurichthys) flavus* Fricke, 1983b: USNM 232244 (holotype); BPBM 28419 (2 paratypes); USNM 242160 (3 paratypes).

Distribution. Red Sea (Saudi Arabia). Known only from the type series, which was collected on silty sand at depths of 2–46 m.

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1983b: 360–365; 1984b: 4; 1988: 244–246; 1990: 12).

Callionymus fluviatilis Day, 1876
Indian river dragonet

Callionymus fluviatilis Day, 1876: 322–323 (River Hooghly at Calcutta/India, type locality).

Types. *Callionymus fluviatilis* Day, 1876: BMNH 1889.2.10.3557–3564 (8 syntypes); NMW 76840 (1 syntype); RMNH 4874 (1 syntype); ZSI 2084 and 20832 (2 syntypes).

Distribution. India (Bay of Bengal); Thailand (Bangkok). The species has been collected in fresh and brackish water of lower reaches of rivers and river mouths, as well as in the ocean where it probably spawns.

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of Fricke (1983b: 142–145; 1988: 165–167; 2001a: 3558). Alternative classification as *Repomucenus fluviatilis* by Nakabo (1982b: 81). Freshwater specimens from mouth of Mekong (Vietnam) belong to an undescribed species (*Callionymus* sp. 2, see above).

Callionymus formosanus Fricke, 1981

Taiwanese deepwater dragonet

Kujaka-soko-numeri (Japan)

Callionymus (Callionymus) formosanus Fricke, 1981e: 369–370, fig. 14 (Formosa Strait/Taiwan, 25°N 120°E, 90 m depth, type locality).

Type. *Callionymus (Callionymus) formosanus* Fricke, 1981: CAS 46972 (holotype). – **Type catalogue**: Fricke (1982b: 61).

Distribution. Japan; Taiwan.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 369–370; 1983b: 145–148; 2000b: 634); Fricke & Wu (1986: 11; 1992: 6–7). Alternative classification as *Bathycallionymus formosanus* by Nakabo (1982b: 79; 1993: 985).

Callionymus futuna Fricke, 1998

Futuna deepwater dragonet

Callionymus futuna Fricke, 1998: 3–6, fig. 1 (Futuna Island shelf/Wallis & Futuna, 14°13'30"S 178°10'18"W, 224–252 m depth, type locality).

Types. *Callionymus futuna* Fricke, 1998: MNHN 1995–0521 (holotype); MNHN 1995–0522 (2 paratypes); SMNS 18823 (1 paratype).

Distribution. Wallis & Futuna (Futuna).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (2000a: 54).

Callionymus gardineri Regan, 1908

Indian Ocean longtail dragonet

Long-tailed dragonet (South Africa); Langstert-drakie (Afrikaans, South Africa)

Callionymus gardineri Regan, 1908: 248, pl. 30, fig. 5 (Cargados Carajos, 20–30 fms (36–55 m) depth, type locality).

Callionymus maldivensis Regan, 1908: 247, pl. 30, fig. 3 (South Nilandu Atoll, Maldives, 30–36 fms (55–66 m) depth, type locality).

Types. *Callionymus gardineri* Regan, 1908: BMNH 1908.3.23.261 (holotype). – *Callionymus maldivensis* Regan, 1908: BMNH 1901.12.

31.63–71 (10 syntypes). – **Type catalogue**: Fricke (1982b: 68).

Distribution. Red Sea (Egypt; Israel; Eritrea; Djibouti); Yemen (Gulf of Aden); Somalia; South Africa (Natal); Comores; Seychelles; Saya de Malha Bank; Cargados Carajos/St Brandon's Shoals; Maldives. The species has been collected on sand bottoms at depths of 30–174 m.

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of

FRICKE (1983b: 366–371; 1984b: 4; 1986b: 771; 1988: 247–250; 2000a: 57). Alternative classification as *Calliurichthys gardineri* and *C. maldivensis* by NAKABO (1982b: 80).

Callionymus goodladi (Whitley, 1944)

Goodlad's dragonet

CAAB Code (Australia): 37 427006

Calliurichthys goodladi Whitley, 1944: 270–272 (Cheyne Bay, Albany District, Western Australia, type locality; Shark Bay, Western Australia).

Type. *Calliurichthys goodladi* Whitley, 1944: WAM P.2528–001 (holotype). – **Type catalogues**: FRICKE (1982b: 68); HUTCHINS & SMITH (1991: 38, WAM).

Distribution. Australia (Western Australia).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of FRICKE (1982a: 131–132; 1983b: 371–375; 1988: 250–253; 2000a: 5). Alternative classification as *Pseudocalliurichthys goodladi* by NAKABO (1982b: 81).

Callionymus grossi Ogilby, 1910

Gross' dragonet

CAAB Code (Australia): 37 427007

Callionymus grossi Ogilby, 1910b: 43–45 (Moreton Bay/Queensland, Australia, type locality).

Callionymus, Calliurichthys, nasutus McCulloch, 1926: 197, pl. 52 (southeast of Cape Capricorn/Queensland, Australia, 13 fms depth, type locality).

Types. *Callionymus grossi* Ogilby, 1910: QM I.1579 (holotype). – *Callionymus, Calliurichthys, nasutus* McCulloch, 1926: AMS E.6507 (holotype). – **Type catalogue**: FRICKE (1982b: 68).

Distribution. Australia (Western Australia; Northern Territory; Queensland; New South Wales). The species has been collected at depths of 13–32 m.

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of FRICKE (1982a: 133–134; 1983b: 376–380; 1988: 254–256; 2000a: 5; 2001a: 3559). Alternative classification as *Calliurichthys grossi* by NAKABO (1982b: 80).

Callionymus guentheri Fricke, 1981

Günther's deepwater dragonet

Callionymus guentheri Fricke, 1981e: 370–373, figs 15–17 (entrance from Sulu Sea into Basilan Strait, west of Zamboanga, Philippines, 07°03'N 121°48'E, 150 m depth, type locality; south coast of Luzon to north coast of Mindanao, Philippines, 100–503 m depth).

Types. *Callionymus guentheri* Fricke, 1991e: BMNH 1879.5.14.567 (holotype); CAS 32668 (2 paratypes); CAS 32801 (1 paratype); CAS 32897 (11 paratypes); CAS 32905 (7 paratypes); CAS 32916 (5 paratypes); CAS 32997 (1 paratype); CAS 33067 (1 paratype); CAS 33703 (1 paratype); CAS 33864 (3 paratypes); CAS 33879 (1 paratype); CAS 34074 (1 paratype); CAS 34154 (7 paratypes); CAS 34190 (2 paratypes); CAS 34197 (9 paratypes); CAS 34205 (1 paratype); CAS 34272 (1 paratype); CAS 34278 (4 paratypes); CAS 34286 (3 paratypes); CAS 34401 (1 paratype); CAS 34426 (1 paratype); CAS 34468 (1 paratype); CAS 46966 (4 paratypes). – **Type catalogue**: FRICKE (1982b: 61).

Distribution. Philippines. The species is found at depths of 100–593 m.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (1981e: 370–373; 1983b: 148–152; 2000a: 54; 2000b: 634). Alternative classification as *Bathycallionymus guentheri* by NAKABO (1982b: 79).

Callionymus hainanensis Li, 1966

Hainan darter dragonet

Cá chai (Vietnam)

Callionymus hainanensis Li, 1966: 167–168, 173–174, fig. 1 (Ying-ge Hai, Hainan/Guandong, People's Republic of China, type locality).

Types. *Callionymus hainanensis* Li, 1966: ASIZB 35955 (holotype); ASIZB 31910–31911 (2 paratypes); ASIZB 35838 (1 paratype); ASIZB 35839 (1 paratype); ASIZB 35930 (1 paratype); ASIZB 35956 (1 paratype); ASIZB 35957–35959 (3 paratypes). – **Type catalogue**: Fricke (1982b: 61).

Distribution. Taiwan; People's Republic of China (South China Sea); Vietnam; Thailand.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1983b: 152–156; 2000b: 634); Fricke & Wu (1986: 11; 1992: 10). Alternative classification as *Repomucenus hainanensis* by Nakabo (1982b: 81).

Callionymus hildae Fricke, 1981

Hilde's darter dragonet

Callionymus leucobranchialis Fowler, 1941a: 19–22, fig. 13 (part: females only; Philippines).
Callionymus hildae Fricke, 1981f: 157–162, figs 8–9 (Manila Bay/Philippines, type locality).

Types. *Callionymus leucobranchialis* Fowler, 1941: SU 40197 (2 paratypes). – *Callionymus hildae* Fricke, 1981: SU 27197 (holotype); BMNH 1933.3.110.697–698 (2 paratypes); CAS 32869 (2 paratypes); CAS 46978 (1 paratype); SU 20671 (2 paratypes); SU 68768 (7 paratypes). – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 61).

Distribution. Philippines (Luzon Island). The species has been collected at depths of 18–28 m.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1981f: 157–162; 1983b: 156–159; 2000b: 634).

Callionymus hindsii Richardson, 1844

Hinds' megamouth dragonet

Ngau Mei Ue (Guandong, People's Republic of China); Terr (Kuwait)

Callionymus hindsii Richardson, 1844a: 64–65, pl. 37, figs 3–4 ("The Pacific Ocean"/is probably China).
Callionymus jonesii Lal Mohan, 1968: 357–360, fig. 1, pl. 1 A-B (Panaikulam, Palk Bay, Bay of Bengal, India, 9°30'N 78°50'E, type locality).

Types. *Callionymus hindsii* Richardson, 1844: BMNH 1844.9.11.31 and BMNH 1855.9.19.911 (4 syntypes). – *Callionymus jonesii* Lal Mohan, 1968: FMRI 116 (holotype); FMRI 117A (9 paratypes); FMRI 117B (2 paratypes); FMRI 117C (2 paratypes). – **Type catalogue**: Fricke (1982b: 61).

Distribution. Persian Gulf (Kuwait); Oman; Pakistan (Sind); India (Palk Bay; Madras); Thailand (Andaman Sea); Singapore; Malaysia (Strait of Malakka; Sarawak; Sabah); Thailand (Gulf of Thailand); People's Republic of China (South China Sea); Taiwan. **New record** from Strait of Malakka/Malaysia based on AMS I.28984–014 (1, Kuala Bermam, 3°47'N 100°55'E) and AMS I.29284–003 (14, Penang, 5°30'N 100°28'E).

Remarks. Subgenus *Callionymus* (subgen. 3). Taxonomic decision of Fricke (1980: 72–81; 1982b: 347–348; 1983b: 159–165; 1984b: 4; 1988: 167–170; 2000b: 634); Fricke & Wu (1986: 11; 1992: 6). Alternative classification as *Repomucenus hindsii* by Nakabo (1982b: 81).

Callionymus huguenini Bleeker, 1858

Huguenin's dragonet

Nagasaki-numeri (Japan); Chum-yang-tae (Korea)

Callionymus huguenini Bleeker, 1858–1859: 7–8, pl. 2, fig. 1 (Nagasaki/Kyushu, Japan, type locality).

Callionymus kitaharae Jordan & Seale, 1906b: 148, fig. 6 (harbor of Nagasaki/Kyushu, Japan, type locality).

Types. *Callionymus huguenini* Bleeker, 1858: RMNH 4803 (holotype). – *Callionymus kitaharae* Jordan & Seale, 1906: SU 9261 (holotype). – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 61).

Distribution. Japan (Shikoku?, Kyushu); Korea.

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1983b: 165–170); Fricke & Wu (1992: 8–9).

Callionymus ikedai (Nakabo, Senou & Aizawa, 1998)

Ryukyu ruddertail dragonet

Pseudocalliurichthys ikedai Nakabo, Senou & Aizawa, 1998: 451–455, figs 1–2 (24°23'20"N 123°45'25"E, mouth of Yonada-gawa River, Iriomote Island, Okinawa Prefecture, Japan, sandy-muddy bottom, 1 m depth, type locality).

Types. *Pseudocalliurichthys ikedai* Nakabo, Senou & Aizawa, 1998: ZUMT 58413 (holotype); FAKU 63628 (1 paratype).

Distribution. Ryukyu Islands.

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of the present paper. Alternative classification as *Pseudocalliurichthys ikedai* by Nakabo, Senou & Aizawa (1998: 451–455).

Callionymus io Fricke, 1983

Andaman Sea spiny dragonet

Callionymus (Spinicapitichthys) io Fricke, 1983b: 465–468, fig. 138 (off Burma/Myanmar, type locality).

Type. *Callionymus (Spinicapitichthys) io* Fricke, 1983: ZSI F.38312 (holotype).

Distribution. Myanmar. Known only from the holotype.

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of Fricke (1983b: 465–468; 1988: 291–292).

Callionymus izuensis Fricke & Zaiser Brownell, 1993

Izu dragonet

Izu-numeri (Japan)

Callionymus persicus izuensis Fricke & Zaiser Brownell, 1993: 4–7, fig. 2 (Igaya Bay, Miyake-jima, Izu Islands, Japan, 16 m depth, type locality).

Types. *Callionymus izuensis* Fricke & Zaiser Brownell, 1993: NSMT-P 35099 (holotype); NSMT-P 35100 (1 paratype); NSMT-P 15101 (1 paratype); NSMT-P 35102 (2 paratypes); NSMT-P 35103 (1 paratype); NSMT-P 35104 (1 paratype); NSMT-P 35105 (1 paratype); SMNS 11569 (1 paratype); SMNS 11570 (1 paratype); SMNS 11571 (1 paratype). – **Type catalogues**: Fricke (1995: 7, SMNS).

Distribution. Japan (Izu Islands).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of Fricke (2000a: 57, 64).

Callionymus japonicus Houttuyn, 1782
Japanese longtail dragonet
Yome-gochi (Japan); Ggong-ji-yang-tae (Korea)

Callionymus japonicus Houttuyn, 1782: 312–314 (Japan/is Nagasaki, Kyushu, type locality).
Callionymus longicaudatus Temminck & Schlegel, 1845: 151–153, pl. 78, figs 1–2, pl. 80, fig. 1 (Japan/is Nagasaki, Kyushu, type locality).
Callionymus reevesii Richardson, 1844a: 60–62, pl. 36, figs 1–3 (part: China Seas, type locality).
Calliurichthys numeri Tanaka, 1917: 11–12 (Soshu, Miyaki/Japan, type locality).

Types. *Callionymus japonicus* Houttuyn, 1782: No type material available. – *Callionymus longicaudatus* Temminck & Schlegel, 1845: RMNH D.1004 (lectotype, as designated by Boeseman, 1947: 130); RMNH D.1002–1003, D.1005–1009 (7 paralectotypes); RMNH 2075 (2 paralectotypes); RMNH 2076 (2 paralectotypes); ZMB 2168 (1 paralectotype). – *Callionymus reevesii* Richardson, 1844: No type material available. – *Calliurichthys numeri* Tanaka, 1917: ZUMT 7431 (1 syntype); ZUMT 7432–7436 (5 syntypes). – **Type catalogues**: Fricke (1982b: 68); Fricke & Paepke (1992: 96, ZMB).

Distribution. Japan; Korea; People's Republic of China (Yellow Sea; East China Sea; South China Sea); Ryukyu Islands; Taiwan; Vietnam; Thailand (Gulf of Thailand); Indonesia (Java); Philippines.

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of Fricke & Wu (1992: 15); Fricke (2000a: 56–57; 2000b: 634). Alternative classification as *Calliurichthys japonicus* by Nakabo (1982b: 80; 1983a: 225–227; 1983b: 62; 1993: 993).

Callionymus kaianus Günther, 1880
Kai Island deepwater dragonet

Callionymus kaianus Günther, 1880: 44, pl. 19 B (Kai Islands/Kepulauan Kai, Maluku, Indonesia, 129 fms/236 m depth, type locality).

Type. *Callionymus kaianus* Günther, 1880: BMNH 1879.5.14.565 (holotype).

Distribution. Indonesia (Kai Islands/Maluku only). The species has been collected on sand bottom at depths of 180–290 m.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 357–359; 1983b: 170–174). Alternative classification as *Bathycallionymus kaianus* by Nakabo (1982b: 86–87, part).

Callionymus kailolae Fricke, 2000
Kailola's deepwater dragonet
Northwestern ocellated dragonet (Australia)
CAAB Code (Australia): 37 427041

Callionymus kailolae Fricke, 2000a: 57–60, fig. 28 (175 km N of Port Hedland, Western Australia, 18°32'S 118°17'E, 200–204 m depth).

Type. *Callionymus kailolae* Fricke, 2000: AMS I.22807–021 (holotype).

Distribution. Western Australia (N of Port Hedland).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (2000a: 5).

Callionymus keeleyi Fowler, 1941

Keeley's dragonet

CAAB Code (Australia): 37 427046

Callionymus keeleyi Fowler, 1941a: 14–16, fig. 9 (Cebu, Philippines, type locality).
Callionymus leucobranchialis Fowler, 1941a: 21 (part: USNM 99396, Cebu specimen only, listed under "other specimens").

Types. *Callionymus keeleyi* Fowler, 1941: USNM 99425 (holotype). – **Type catalogue**: Fricke (1982b: 62).

Distribution. Indonesia (Maluku); Philippines; Papua New Guinea (Port Moresby); Australia (Northern Territory); East Coral Sea (Banc du Sable Group); New Caledonia (Grande Terre Group).

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1983b: 174–177; 1993b: 368; 2000a: 4, 5, 14–16; 2000b: 634). Alternative classification as *Repomucenus keeleyi* by Nakabo (1982b: 81).

Callionymus koreanus (Nakabo, Jeon & Li, 1987)

Korean dragonet

Ch'am-tot-yangt'ae (Korea); Chao-Xian-Xian (People's Republic of China)

Repomucenus koreanus Nakabo, Jeon & Li, 1987: 286–290, figs 1–3 (Sa-dong, Ansan-shi, Kyong'gi-do, Korea, 37°17'N 126°47'E, type locality; East China Sea/People's Republic of China).

Types. *Repomucenus koreanus* Nakabo, Jeon & Li, 1987: SMWU 3001 (holotype); ASIZB 31339–31341 (3 paratypes); ASIZB 66063 (1 paratype); FAKU 53900–53904 (5 paratypes); FAKU 53914 (1 paratype); FAKU 53917 (1 paratype); FAKU 53918–53922 (5 paratypes); FAKU 53923–53924 (2 paratypes); FAKU 55024–55035 (12 paratypes); FAKU 55308–55316 (9 paratypes); SMWU 3002–3004 (3 paratypes); SMWU 3014–3015 (2 paratypes); SMWU 3018–3019 (2 paratypes); SMWU 3021–3026 (6 paratypes); SMWU 3061–3077 (17 paratypes); SMWU 3086–3095 (10 paratypes).

Distribution. Korea; People's Republic of China (East China Sea).

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of Fricke & Wu (1992: 13). Alternative classification as *Repomucenus koreanus* by Nakabo, Jeon & Li (1987: 286–290).

Callionymus kotthausi Fricke, 1981

Kotthaus' deepwater dragonet

Diplogrammus indicus Kotthaus, 1977: 40–41, fig. 423 B, 424 B, 425 (WSW of Cochin, India, type locality; secondary homonym of *Callionymus indicus* Linnaeus, 1758).
Callionymus kotthausi Fricke, 1981e: 363–364, fig. 10 (replacement name for *Diplogrammus indicus* Kotthaus, 1977; about 40 km WSW of Cochin, India, 9°40'N 75°38.8'E – 9°45.3'N 75°38.5'E, 138–211 m depth, type locality).

Types. *Diplogrammus indicus* Kotthaus, 1977: ZMH 5535 (holotype); ZMH 5536 (11 paratypes). – *Callionymus kotthausi* Fricke, 1981: ZMH 5535 (holotype); ZMH 5536 (11 paratypes). – **Type catalogues**: Fricke (1982b: 62); Wilkens & Dohse (1993: 419).

Distribution. India (off Malabar coast). The species has been collected at depths of 138–211 m.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 363–364; 1983b: 177–180; 1984b: 4; 1988: 170–173; 2000a: 59). Alternative classification as *Bathycallionymus kotthausi* by Nakabo (1982b: 79); in this case name must be changed to *Bathycallionymus indicus* (Kotthaus, 1977), as it

is not a secondary homonym of *Callionymus indicus* Linnaeus, 1758 if in *Bathycallionymus*.

Callionymus leucobranchialis Fowler, 1941

Whitegill dragonet

Callionymus leucobranchialis Fowler, 1941a: 19–22, fig. 12 (part: San Fernando Point Light, Luzon, Philippines, 16°30'36"N 120°11'06"E, 45 fms (82 m) depth, type locality).

Type. *Callionymus leucobranchialis* Fowler, 1941: USNM 99393 (holotype). – **Type catalogue**: FRICKE (1982b: 62).

Distribution. Philippines; Australia (Western Australia; Queensland).

Remarks. Subgenus *Callionymus* (subgen. 2). Taxonomic decision of FRICKE (1983b: 181–183; 2000a: 5, 60–62; 2000b: 634).

Callionymus leucopoecilus Fricke & Lee, 1993

Korean darter dragonet

Hwenjom-yangtae (Korea)

Callionymus (Callionymus) leucopoecilus Fricke & Lee, 1993: 275–279, fig. 1 (Korea, Uendong, Kunsan-shi, Chollabuk-do, 35°51'N 126°40'E, type locality).

Types. *Callionymus (Callionymus) leucopoecilus* Fricke & Lee, 1993: SMNS 10100 (holotype); BKNU 331 (1 paratype).

Distribution. Korea.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of FRICKE & LEE (1993: 275–279). Alternative classification as Repomucenus *sagitta* by NAKABO, JEON & LI (1991: part, 255–261).

Callionymus limiceps Ogilby, 1908

Rough-headed dragonet

CAAB Code (Australia): 37 427012

Callionymus limiceps Ogilby, 1908: 35 (Moreton Bay, South Queensland/Australia, type locality).

Types. *Callionymus limiceps* Ogilby, 1908: Several syntypes were in QM (not found in 1997; see ESCHMEYER, 1998: 907).

Distribution. Australia (Queensland; New South Wales).

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of FRICKE (1983b: 183–187; 2000a: 5; 2001a: 3561). Alternative classification as *Repomucenus limiceps* by NAKABO (1982b: 81).

Callionymus lunatus Temminck & Schlegel, 1845

Moon dragonet

Numerigochi (Japan); Dot-yang-tae (Korea)

Callionymus lunatus Temminck & Schlegel, 1845: 155, pl. 78, fig. 4 (Japan/is Nagasaki, Kyushu, type locality).

Callionymus inframundus Gill, 1860: 129 (Japan, type locality).

Callionymus lunatus forma *usuiro* Kuroda, 1951: 394 (off Shige, Numazu, Suruga Bay, Shizuoka Prefecture, Hondo/Japan; nomen nudum).

Callionymus lunatus forma *usuiro* Kuroda, 1952: 174, fig. 6 (off Shige, Numazu, Suruga Bay, Shizuoka Prefecture, Hondo/Japan; type lcoality).

Types. *Callionymus lunatus* Temminck & Schlegel, 1845: RMNH 2092 (holotype). – *Callionymus inframundus* Gill, 1860: No type material known. – *Callionymus lunatus* forma

usuiro Kuroda, 1952: Holotype apparently lost (see ESCHMEYER, 1998: 1733). – **Type catalogue**: FRICKE (1982b: 62).

Distribution. Japan (west coast north to Niigata; east coast north to Chiba Prefecture); Korea; People's Republic of China (East China Sea); Taiwan.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of FRICKE (1983b: 187–193); FRICKE & WU (1986: 11; 1992: 12–13). Alternative classification as *Repomucenus lunatus* by NAKABO (1982b: 81; 1983a: 244–246; 1993: 995).

Callionymus luridus Fricke, 1981

Macclesfield longtail dragonet

Callionymus (Calliurichthys) luridus Fricke, 1981d: 390–393, figs 2–3 (Macclesfield Bank/South China Sea, type locality).

Types. *Callionymus (Calliurichthys) luridus* Fricke, 1981: BMNH 1894.4.24.7 (holotype); BMNH 1848.3.16.87 (1 paratype); BMNH 1894.4.24.8 (1 paratype). – **Type catalogue**: FRICKE (1982b: 69).

Distribution. Macclesfield Bank (South China Sea).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of FRICKE (1981d: 390–393; 1983b: 394–398; 2000a: 57; 2000b: 634); FRICKE & WU (1986: 12; 1992: 14–15). Alternative classification as *Calliurichthys luridus* by NAKABO (1982b: 80).

Callionymus lyra Linnaeus, 1758

Common dragonet

Leierfisch (Germany); Dragonet lyra (France); Primita (Spain)

Callionymus lyra Linnaeus, 1758: 249 (in oceano Atlantico/Atlantic Ocean, type locality).
Callionymus elegans LeSueur, 1814: 6, figs 17, 17 A (Le Havre/France, type locality).
Uranoscopus micropterygius Gronow in Gray, 1854: 43 (German seas; type locality).

Types. *Callionymus lyra* Linnaeus, 1758: BMNH 1853.11.12.11 (1 syntype); NRM LP.34 (2 syntypes). – *Callionymus elegans* LeSueur, 1814: No type material available. – *Uranoscopus micropterygius* Gronow in Gray, 1854: No type material available. – **Type catalogues**: FERNHOLM & WHEELER (1983: 271); FRICKE, BAUCHOT & DESOUTTER (1984: 108, MNHN); WHEELER (1958: 232–233, BMNH).

Distribution. Iceland; Norway; Sweden (Atlantic coast); Denmark; Germany; Netherlands; Belgium; Shetland Islands; Great Britain; Ireland; France (Atlantic coast); Spain (Atlantic coast); Portugal; Azores; Morocco; Canary Islands; Western Sahara; Mauritania; Mediterranean Sea (Spain; France; Italy; Malta; Turkey); Black Sea (Turkey; Bulgaria; Romania).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of DAVIS & FRICKE (1990: 921); FRICKE (1986a: 143–145; 1986c: 1088–1089; 1987: 1004; 1999b: 12).

Callionymus macclesfieldensis Fricke, 1983

Macclesfield dragonet

Callionymus (Callionymus) macclesfieldensis Fricke, 1983b: 193–196, fig. 55 (Macclesfield Bank, South China Sea, 16°04'N 114°43'30"E – 16°03'30"N 114°39'E, 76.8–82.31 m depth, type locality).

Type. *Callionymus (Callionymus) macclesfieldensis* Fricke, 1983: USNM 232260 (holotype).

Distribution. Macclesfield Bank/South China Sea.

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1983b: 193–196; 2000b: 634); Fricke & Wu (1986: 11; 1992: 9).

Callionymus macdonaldi Ogilby, 1911

Australian darter dragonet

CAAB Code (Australia): 37 427023

Callionymus macdonaldi Ogilby, 1911: 56–58, pl. 6, fig. 2 (Moreton Bay/Queensland, Australia, type locality).

Type. *Callionymus macdonaldi* Ogilby, 1911: QM I.2473 (holotype). – **Type catalogue**: Fricke (1982b: 62).

Distribution. Indonesia (Irian Jaya); Papua New Guinea (Port Moresby); Australia (Northern Territory; Queensland; New South Wales). **New record** from Irian Jaya/Indonesia based on SMNS 21194 (1, Ajkwa River mouth, 4°52'48"S 136°55'54"E), SMNS 21195 (2, Minajerwi River mouth, 4°55'06"S 137°03'36"E), SMNS 21196 (1, Minajerwi River mouth), SMNS 21197 (3, Ajkwa River mouth); SMNS 21198 (1, Minajerwi River mouth).

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1983b: 197–201; 1988: 174–176; 2000a: 5). Alternative classification as *Repomucenus macdonaldi* by Nakabo (1982b: 81). Alternative classification as *Repomucenus sagitta* by Nakabo, Jeon & Li (1991: part, 255–261).

Callionymus maculatus Rafinesque-Schmaltz, 1810

Spotted dragonet

Dragonet tacheté (France); Lagarto (Spain)

Callyonimus maculatus Rafinesque-Schmaltz, 1810: 25, pl. 5, fig. 1 (Sicily, type locality; neotype: SMNS 21188, as designated by Fricke, 1999b: 47).

Callionymus cithara Cuvier, 1829: 248 (footnote; nomen nudum).

Callionymus cithara Valenciennes in Cuvier & Valenciennes, 1837: 280 (Naples/Mediterranean Sea, Italy; Messine/Messina, Sicily, Mediterranean Sea, Italy; Malta; Marseille/Mditerranean Sea, France).

Calionymus lodronos Chiereghini in Nardo, 1847: col. 115 (Venezia/Italy, type locality).

Callionymus maculatus forma *atlantica* Ninni, 1934: 21–22, pl. 3, fig. 1 (NE Atlantic, type locality).

Types. *Callyonimus maculatus* Rafinesque-Schmaltz, 1810: SMNS 21188 (neotype). – *Callionymus cithara* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1550-A.1551 (2 syntypes, Naples); MNHN A.1552 (1 syntype, Messina); MNHN A.1553 (2 syntypes, Messina); MNHN A.1554 (2 syntypes, Naples); MNHN A.1555 (1 syntype, Malta); MNHN 4519 (7 syntypes, Messina); NMW 76498 (1 syntype, Marseille). – *Calionymus lodronos* Chiereghini in Nardo, 1847: No type material available. – *Callionymus maculatus* forma *atlantica* Ninni, 1934: No type material available. – **Type catalogues**: Fricke (1982b: 63); Fricke, Bauchot & Desoutter (1984: 105, MNHN).

Distribution. Iceland; Norway; Sweden (Atlantic coast); Denmark; Germany; Rockall; Shetland Islands; Great Britain; Ireland; France (Atlantic coast); Spain (Atlantic coast); Morocco; Senegal; Mediterranean Sea (Spain; France; Italy; Croatia; Malta; Libya; Greece; Lebanon; Israel).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of Davis & Fricke (1990: 921); Fricke (1986a: 145–147; 1986c: 1089–1090; 1987: 1005; 1999b: 47).

Callionymus margaretae Regan, 1906
Margaret's dragonet

Callionymus margaretae Regan, 1906: 326, pl. 3, fig. 3 (Muscat/Oman, 15–30 fms (27–55 m depth), type locality).

Types. *Callionymus margaretae* Regan, 1906: BMNH 1904.5.250.151–152 (2 syntypes). – **Type catalogue**: Fricke (1982b: 69).

Distribution. Somalia; Oman; Persian Gulf; Pakistan; India (Malabar coast; Bay of Bengal). **New record** from Somalia based on USNM 305945 (1, Ras Binnah, 11°16'18"N 51°15'36"E, 57–59 m depth); USNM 305946 (4, Ras Hafun, 10°04'06"N 50°57'54"E, 36 m depth).

Remarks. Subgenus *Callionymus* (subgen. 7). Taxonomic decision of Fricke (1980: 81–90; 1984b: 4; 1988: 262–265; 2000a: 57). Alternative classification as *Calliurichthys margaretae* by Nakabo (1982b: 80).

Callionymus marleyi Regan, 1919
Marley's darter dragonet
Sand dragonet (South Africa); Sand-drakie (Afrikaans, South Africa)

Callionymus marleyi Regan, 1919: 201–202, fig. 4 (Durban/Natal, South Africa), type locality.

Types. *Callionymus marleyi* Regan, 1919: BMNH 1917.10.1.9 (1 syntype); BMNH 1919.4.10.23–24 (2 syntypes). – **Type catalogue**: Fricke (1982b: 63).

Distribution. South Africa (False Bay to Natal); Mozambique; Madagascar; Yemen (Gulf of Aden); Oman; Persian Gulf (Bahrain; United Arab Emirates); India (Madras). Antiequatorial distribution; not recorded between 15°N and 13°S.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1983b: 201–205; 1984b: 4 and 2 unnumbered pp.; 1986a: 147; 1986b: 772; 1988: 177–179). Alternative classification as *Repomucenus marleyi* by Nakabo (1982b: 81).

Callionymus marquesensis Fricke, 1989
Marquesas ruddertail dragonet

Callionymus (Calliurichthys) marquesensis Fricke, 1989a: 48–53, fig. 1 (NW side of Sentinelle de l'Est, Nuku Hiva, Marquesas Islands, 70 feet (23 m) depth, type locality; Fatu Hiva, Tahuata/Marquesas Islands).

Types. *Callionymus (Calliurichthys) marquesensis* Fricke, 1989: BPBM 12824 (holotype); BPBM 11868 (2 paratypes); BPBM 11935 (2 paratypes); BPBM 12825 (1 paratype); BPBM 16422 (1 paratype); BPBM 17721 (1 paratype).

Distribution. Marquesas Islands (Nuku Hiva; Tahuata; Fatu Hiva).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1989a: 48–53).

Callionymus martinae Fricke, 1981
Martina's dragonet

Callionymus (Calliurichthys) martinae Fricke, 1981f: 162–165, fig. 11 (southwest of Kao-Hsiung into South China Sea, Taiwan, 40–50 fms (73–92 m) depth, type locality).

Types. *Callionymus (Calliurichthys) martinae* Fricke, 1981: CAS 28206 (holotype); CAS 47769 (1 paratype). – **Type catalogue**: Fricke (1982b: 69).

Distribution. Taiwan.

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1981f: 162–165; 1983b: 409–411; 2000b: 634); FRICKE & WU (1986: 12; 1992: 17).

Callionymus mascarenus Fricke, 1983
Mascarene horn dragonet

Callionymus (Callionymus) mascarenus Fricke, 1983b: 206–211, fig. 60 (Mauritius, type locality).

Types. *Callionymus (Callionymus) mascarenus* Fricke, 1983: USNM 143552 (holotype); USNM 231408 (2 paratypes).

Distribution. Mauritius.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of FRICKE (1983b: 206–211; 1984b: 4; 1988: 180–182; 1999a: 493).

Callionymus megastomus Fricke, 1982
Indian megamouth dragonet

Callionymus megastomus Fricke, 1982b: 345–349, fig. 1 (India, type locality; Calcutta/India).

Types. *Callionymus megastomus* Fricke, 1982: BMNH 1858.8.15.12 (holotype); BMNH 1858.8.15.13 (2 paratypes); RMNH 4874 (1 paratype).

Distribution. India (West Bengal). Known only from the type series.

Remarks. Subgenus *Callionymus* (subgen. 3). Taxonomic decision of FRICKE (1982b: 345–349; 1983b: 211–214; 1988: 182–184).

Callionymus melanotopterus Bleeker, 1851
Indonesian flag dragonet

Callionymus melanotopterus Bleeker, 1851: 30, 31 (Batavia/Jakarta, Java, Indonesia, type locality).

Types. *Callionymus melanotopterus* Bleeker, 1851: SMNS 10621 (2 syntypes). – **Type catalogue**: FRICKE (1991: 9, SMNS).

Distribution. Singapore; Indonesia (Pulau Bangka; Java; Kalimantan; Sulawesi).

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE (1983b: 214–217; 1988: 184–187; 2001a: 3562). Alternative classification as *Repomucenus melanotopterus* by NAKABO (1982b: 81).

Callionymus meridionalis Suwardji, 1965
Whiteflag dragonet
CAAB Code (Australia): 37 427019

Callionymus valenciennei meridionalis Suwardji, 1965: 313–316, fig. 1, pl. 47, figs 3–4 (Bali Strait/Indonesia, 08°26'S 114°29'E, ca. 70 m depth, type locality).

Callionymus monofilispinnus Li, 1966: 168–169, 174–175, fig. 2 (Pei-Hai, Kwangtung/Guandong, People's Republic of China, type locality).

Types. *Callionymus valenciennei meridionalis* Suwardji, 1965: ZMUC P.6492 (holotype); ZMUC P.6493-P.6496 (4 paratypes). – *Callionymus monofilispinnus* Li, 1966: ASIZB 30549 (holotype); ASIZB 44432 (1 paratype). – **Type catalogues**: FRICKE (1982b: 63); NIELSEN (1974: 71, ZMUC).

Distribution. Taiwan; Thailand (Gulf of Thailand); Malaysia (Malaya, Strait of Malakka; Malaya, east coast; Sarawak); Indonesia (Java; Bali; Lombok); Philippines; Australia (Western Australia; Northern Territory).

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of FRICKE (1983b: 217–223; 1988: 187–190; 2000a: 5; 2000b: 634; 2001a: 3563); FRICKE & WU (1986: 11; 1992: 12). Alternative classification as *Repomucenus meridionalis* by NAKABO (1982b: 81).

Callionymus moretonensis Johnson, 1971

Moreton Bay deepwater dragonet

CAAB Code (Australia): 37 427003

Callionymus kaianus moretonensis Johnson, 1971: 108–113, figs. 1–2 (7 miles east of Cape Moreton, South Queensland, Australia, 68–72 fms depth, type locality).

Types. *Callionymus kaianus moretonensis* Johnson, 1971: AMS I.15608–001 (holotype); AMS I.15608–002-006 (5 paratypes); CAS 24764 (1 paratype); CAS 24765 (1 paratype); CAS 24766 (1 paratype); CAS 24767 (1 paratype); QM I.9156-I.9157 (2 paratypes). – **Type catalogue**: FRICKE (1982b: 64).

Distribution. Australia (Northern Territory; Queensland; New South Wales); (?) New Caledonia (Grande Terre).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (2000a: 4, 5, 16–18). Alternative classification as *Bathycallionymus moretonensis* by NAKABO (1982b: 79).

Callionymus mortenseni Suwardji, 1965

Mortensen's darter dragonet

Callionymus mortenseni Suwardji, 1965: 317–319, pl. 48, fig. 1 (close to Tual, Kai Islands/Kepulauan Kai, Maluku, Indonesia, mud bottom, 290 m depth, type locality).

Type. *Callionymus mortenseni* Suwardji, 1965: ZMUC P.64104 (holotype). – **Type catalogues**. FRICKE (1982b: 64); NIELSEN (1974: 71, ZMUC).

Distribution. Indonesia (Maluku: Kai Islands). The species is known only from the holotype.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of FRICKE (1983b: 227–230).

Callionymus muscatensis Regan, 1906

Muscat spiny dragonet

Callionymus muscatensis Regan, 1906: 326–327, pl. 3, fig. 2 (Muscat/Oman, type locality).

Types. *Callionymus muscatensis* Regan, 1906: BMNH 1904.5.250.145–150 (2 syntypes, Muscat/Oman). – **Type catalogue**: FRICKE (1982b: 70).

Distribution. Red Sea (Eritrea, Yemen); Oman.

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of FRICKE (1983b: 469–472; 1984b: 4; 1988: 293–295). Alternative classification as *Spinicapitichthys muscatensis* by NAKABO (1982b: 82).

Callionymus neptunius (Seale, 1910)

Neptune dragonet

Calliurichthys neptunia Seale, 1910: 539–540 (Balayan Bay, Philippines, type locality).

Calliurichthys linea-thorax Fowler, 1943: 80–81, fig. 19 (Jolo/Philippines, 20 fms (37 m) depth, type locality).

Types. *Calliurichthys neptunia* Seale, 1910: (holotype and 1 paratype: BSMP 2317 and BSMP uncat., destroyed in WW*II*). – *Calliurichthys linea-thorax* Fowler, 1943: USNM 99504 (holotype).

Distribution. Sri Lanka; Philippines; Papua New Guinea (New Britain); Solomon Islands (Savo). The species has been collected at depths of 5–37 m.

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of Fricke (1981d: 393–398; 1983b: 411–416; 1984b: 4; 1988: 268–]270; 2000a: 57; 2000b: 634). Alternative classification as *Calliurichthys neptunius* by Nakabo (1982b: 80).

Callionymus obscurus Fricke, 1989
Ambon spiny dragonet

Callionymus (Spinicapitichthys) obscurus Fricke, 1989a: 54–56, fig. 4 (Latuhalat, Ambon/Maluku, Indonesia, sloping sand bottom, 40 m depth, type locality).

Type. *Callionymus (Spinicapitichthys) obscurus* Fricke, 1989: BPBM 18519 (holotype).

Distribution. Indonesia (Maluku: Ambon). The species is known only from the holotype.

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of Fricke (1989a: 54–56).

Callionymus ochiaii Fricke, 1981
Japanese lowfin deepwater dragonet

Callionymus ochiaii Fricke, 1981e: 366–368, fig. 13 (Shibushi, Kagoshima Prefecture, Japan, type locality).

Types. *Callionymus ochiaii* Fricke, 1981: FAKU 23261 (holotype); FAKU 23257–23260 (4 paratypes); FAKU 23275 (1 paratype).

Distribution. Japan; Ryukyu Islands; People's Republic of China (East China Sea); Taiwan.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1981e: 366–368; 1983b: 230–233; 2000a: 59). Alternative classification as *Bathycallionymus kaianus* (part: non Günther, 1880) by Nakabo (1982b: 79; 1983a: 203–205; 1993: 985).

Callionymus octostigmatus Fricke, 1981
Eightspot dragonet

Callionymus octostigmatus Fricke, 1981f: 143–152, figs 1–6 (Sanderal Point, Catanauan, Quezon, Philippines, 70–78 fms (128–143 m) depth, type locality; Taiwan; Vietnam; Gulf of Thailand; Andaman Islands; 61–148 m depth).

Types. *Callionymus octostigmatus* Fricke, 1981: CAS 33370 (holotype); CAS 15958 (6 paratypes); CAS 20791 (1 paratype); CAS 30328 (1 paratype); CAS 32620 (11 paratypes); CAS 32727 (1 paratype); CAS 32747 (2 paratypes); CAS 32775 (1 paratype); CAS 32828 (8 paratypes); CAS 45896 (2 paratypes); CAS 46530 (2 paratypes); CAS 46531 (2 paratypes); CAS 47766 (3 paratypes); CAS 47768 (1 paratype); CAS 47781 (1 paratype); CAS 47780 (1 paratype). – **Type catalogue**: Fricke (1982b: 64).

Distribution. Andaman Islands/India; Thailand (Gulf of Thailand); Indonesia (Sulawesi); Vietnam; People's Republic of China (Hong Kong); Taiwan; Philippines; Papua New Guinea (Morobe); Australia (Northern Territory). **New record** from Northern Territory/Australia based on NTM S.11685–004 (1, north of Cape Wessel, 10°25'S 136°19'E).

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE (1981f: 143–152; 1983b: 234–239; 1988: 191–194; 2000b: 634; 2001a: 3564); FRICKE & WU (1986: 11; 1992: 8).

Callionymus ogilbyi Fricke, 2002

Eastern Australian longtail dragonet

?Callionymus affinis Ogilby, 1910a: 134–135 (Cape Moreton/Queensland; permanently invalid, primary homonym of *Callionymus affinis* Regan, 1908).

Callionymus ogilbyi Fricke, 2002b: 5–9, fig. 1 (southeast of Evans Head, off Iluka, New South Wales, Australia, type locality; northern New South Wales, southern Queensland/Australia).

Types. *Callionymus affinis* Ogilby, 1910: AMS E.1569 (holotype). – *Callionymus ogilbyi* Fricke, 2002: AMS I.26229–002 (holotype); AMS I.26229–000 (1 paratype); AMS I.26312–007 (9 paratypes); AMS I.26828–005 (1 paratype); AMS I.32120–007 (1 paratype); AMS I.34028–001 (2 paratypes).

Distribution. Australia (Queensland; New South Wales).

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of FRICKE (2002b: 5–9).

Callionymus olidus Günther, 1873

Chinese darter dragonet

Ngau Mei Ue (Guandong, People's Republic of China)

Callionymus olidus Günther, 1873: 242–243 (Shanghai/People's Republic of China, type locality).

Types. *Callionymus olidus* Günther, 1873: BMNH 1873.7.30.48 (11 syntypes). – **Type catalogue**: FRICKE (1982b: 64).

Distribution. Korea; People's Republic of China (Guandong; East China Sea; Yellow Sea); Taiwan. **New record** from Yellow Sea based on specimens from off Shandong Province: USNM 326213 (3, 35°59'54"N 120°27'05"E), USNM 326214 (2, 35°59'17"N 120°26'34"E), USNM 326215 (1, 36°00'29"N 120°28'22"E), and USNM 326216 (1, 36°00'10"N 120°23'09"E).

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of FRICKE (1983b: 239–243); FRICKE & WU (1986: 11; 1992: 6). Alternative classification as *Repomucenus olidus* by NAKABO (1982b: 81).

Callionymus ornatipinnis Regan, 1905

Japanese ornate dragonet

Seto-numeri (Japan)

Callionymus ornatipinnis Regan, 1905: 23–24, pl. 3 (Inland Sea of Japan, type locality).

Types. *Callionymus ornatipinnis* Regan, 1905: BMNH 1905.6.60.331–336 (7 syntypes); ZSI F.2991/1 (1 syntype). – **Type catalogues**: MENON & YAZDANI (1968: 151); FRICKE (1982b: 64).

Distribution. Japan (Sagami Bay southward); Korea; People's Republic of China (Yellow Sea); Taiwan.

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of FRICKE (1983b: 243–246); FRICKE & WU (1986: 11; 1992: 11). Alternative classification as *Repomucenus ornatipinnis* by NAKABO (1982b: 81; 1983a: 239–241; 1993: 996).

Callionymus oxycephalus Fricke, 1980
Red Sea spiny dragonet

Callionymus (Spinicapitichthys) oxycephalus Fricke, 1980: 95–101, figs 13–14 (Gulf of Suez, Red Sea/Egypt, type locality).

Types. *Callionymus (Spinicapitichthys) oxycephalus* Fricke, 1980: MNHN 1966–0159 (holotype); MNHN B.2904 (9 paratypes). – **Type catalogues**: Fricke (1982b: 70); Fricke, Bauchot & Desoutter (1984: 106, MNHN).

Distribution. Red Sea (Gulf of Suez/Egypt).

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of Fricke (1980: 95–101; 1983b: 473–476; 1984b: 4; 1988: 296–298). Alternative classification as *Spinicapitichthys oxycephalus* by Nakabo (1982b: 82).

Callionymus persicus Regan, 1906
Persian dragonet

Callionymus persicus Regan, 1906: 325–326, pl. 3, fig. 1 (Persian Gulf; Mekran coast/Iran; Muscat/Oman).

Callionymus affinis Regan, 1908: 248 (South Nilandu Atoll, Maldives, 30 fms (55 m) depth, type locality).

Types. *Callionymus persicus* Regan, 1906: BMNH 1898.6.8.1–3 (3 syntypes, Muscat/Oman); BMNH 1899.5.8.91–92 (1 syntype, Mekran coast); BMNH 1901.1.30.77 (1 syntype, Mekran coast); BMNH 1904.5.25.207–212 (6 syntypes, Persian Gulf); BMNH 1904.5.25.213–215 (3 syntypes, Persian Gulf). – *Callionymus affinis* Regan, 1908: BMNH 1901.12.31.72 (holotype). – **Type catalogue**: Fricke (1982b: 69).

Distribution. Comores; Seychelles; Yemen (Gulf of Aden); Oman; Persian Gulf; Iran (Mekran); Maldives.

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of Fricke (1983b: 416–423; 1984b: 4; 1988: 271–273; 2000a: 57). Alternative classification as *Calliurichthys persicus* and *C. affinis* by Nakabo (1982b: 80).

Callionymus planus Ochiai in Ochiai, Araga & Nakajima, 1955
Japanese darter dragonet

Callionymus planus Ochiai in Ochiai, Araga & Nakajima, 1955: 106–108, figs 4–5 (Miya, Aichi Prefecture/Japan, type locality).

Types. *Callionymus planus* Ochiai in Ochiai, Araga & Nakajima, 1955: FAKU 20685 (holotype); FAKU 16960–16961 (2 paratypes); FAKU 17163–17167 (5 paratypes); FAKU 21877–21895 (19 paratypes); FAKU 23638 (1 paratype); FAKU 23640–23642 (3 paratypes). – **Type catalogue**: Fricke (1982b: 64).

Distribution. Japan (Aichi Prefecture to Kyushu); Taiwan.

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1983b: 247–249); Fricke & Wu (1986: 11; 1992: 10). Alternative classification as *Repomucenus planus* by Nakabo (1982b: 81; 1983a: 246–247; 1993: 994).

Callionymus platycephalus Fricke, 1983
Flathead dragonet

Callionymus (Calliurichthys) platycephalus Fricke, 1983b: 423–428, fig. 125 (Visayan Sea, between northern Negros and Masbate Island, east of Sicogon Island/Philippines, 11°27'45"N 123°23'45"E, 0–47.6 m depth, type locality).

Types. *Callionymus (Calliurichthys) platycephalus* Fricke, 1983: USNM 231409 (holotype); USNM 231410 (30 paratypes).

Distribution. Philippines (Visayan Sea).

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1983b: 423–428).

Callionymus pleurostictus Fricke, 1982
Blue-spotted ruddertail dragonet
CAAB Code (Australia): 37 427021

Callionymus (Calliurichthys) pleurostictus Fricke, 1982a: 138–141, figs. 7–8 (Long Ving Danlon, Bay of Nhatrang, Vietnam, 12°12'06"N 109°17'30"E, type locality; Gulf of Thailand).

Types. *Callionymus (Calliurichthys) pleurostictus* Fricke, 1982: CAS 46723 (holotype); CAS 46719 (1 paratype); CAS 46724 (1 paratype); CAS 46725 (1 paratype); CAS 46726 (1 paratype). – **Type catalogue**: FRICKE (1982b: 69).

Distribution. Japan; Vietnam; Thailand (Gulf of Thailand); Indonesia (Maluku; Irian Jaya); Papua New Guinea (Port Moresby; New Britain); Australia (Northern Territory; Queensland); East Coral Sea (Chesterfield Islands); New Caledonia (Grande Terre Group); Solomon Islands (Guadalcanal). This species has been collected on sand bottom at depths of 0.5–21 m. **New record** from Port Moresby/Papua New Guinea based on SMNS 8467 (3, Motupore Island, 9°30'S 147°10'E, 7 m depth); SMNS 8469 (5, Motupore Island, 6 m depth); SMNS 11565 (1, Motupore Island, 5 m depth).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of FRICKE (1982a: 138–141; 1983b: 428–433; 1988: 274–276; 1989a: 53; 1993b: 368–369; 2000a: 4, 5, 18–19; 2000b: 634). Alternative classification as *Pseudocalliurichthys pleurostictus* by NAKABO & HAYASHI (1991: 73–76); NABAKO (1993: 993).

Callionymus pusillus Delaroche, 1809
Sailfin dragonet

Callionymus dracunculus Linnaeus, 1758: 249–250 (part: Genua, Roma/Italy; on Gronovius, Rondeletius; name suppressed for the principle of priority and placed on Official Index by Opinion 1658, 1991).

Callionymus pusillus Delaroche, 1809: 330, pl. 25, fig. 16 (Iviça/Ibiza, Baleares Islands, Mediterranean Sea, Spain, type locality).

Callionymus festivus Pallas, 1811: 146–147 (Black Sea, type locality).

Callionymus admirabilis Risso, 1827: 264, pl. 6, fig. 2 (Nice/Mediterranean Sea, France, type locality).

Callionymus lacerta Cuvier, 1829: 247 (Mediterranée/Mediterranean Sea; based on the "Dracunculus" of RONDELETIUS, 1554: 304–305, and replacement name for *Callionymus pusillus* Delaroche, 1809).

Calionymus lodra Chiereghini in Nardo, 1847: coll. 115 (Venezia/Italy, type locality).

Callionymus partenopoeus Giglioli, 1883: 398–399 (Mergellina, Napoli/Naples, Mediterranean Sea, Italy, type locality).

Callionymus festivus forma *giglioli* Ninni, 1934: 29–33, pl. 5, fig. 1 (Golfo di Napoli/Naples, Mediterranean Sea, Italy, type locality; replacement name for *Callionymus partenopoeus* Giglioli, 1883).

Types. *Callionymus pusillus* Delaroche, 1809: MNHN A.1525 (2 syntypes). – *Callionymus festivus* Pallas, 1811: No type material available. – *Callionymus admirabilis* Risso, 1827: MNHN A.1520 (holotype). – *Callionymus lacerta* Cuvier, 1829: MNHN A.1525 (2 syntypes). – *Calionymus lodra* Chiereghini in Nardo, 1847: Types not available. – *Callionymus partenopoeus* Giglioli, 1883: MZF P.5661 (holotype). – *Callionymus festivus* forma *giglioli* Ninni, 1934: MZF P.5661 (holotype). – **Type catalogues**: FRICKE (1982b: 64, 65); FRICKE, BAUCHOT & DESOUTTER (1984: 105, 107, MNHN); VANNI (1990: 221, MZF).

Distribution. Portugal; Mediterranean Sea (Spain; France; Italy; Croatia; Algeria; Malta); Black Sea (Bulgaria; Romania; Ukraina; Russia; Georgia; Turkey).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of FRICKE (1986a: 148–149; 1986c: 1090; 1987: 1005; 1989b: 255–256); Opinion 1658 (1991: 274–275, specific name *Callionymus pusillus* Delaroche, 1809 conserved, specific name *Callionymus dracunculus* Linnaeus, 1758 suppressed).

Callionymus regani Nakabo, 1979
Regan's deepwater dragonet

Callionymus regani Nakabo, 1979: 231–234, fig. 1 (Saya de Malha Bank, 11°16'S 61°02'E, 148 m depth, type locality).

Types. *Callionymus regani* Nakabo, 1979: HUMZ 72408 (holotype); HUMZ 72325 (1 paratype); HUMZ 72359 (1 paratype); HUMZ 42405 and 42407 (2 paratypes); HUMZ 73395 (1 paratype); HUMZ 73448–73449 (2 paratypes; HUMZ 73681 (1 paratype). – **Type catalogue**: FRICKE (1982b: 65).

Distribution. Saya de Malha Bank (Western Indian Ocean).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (1981e: 361–363; 1983b: 250–253; 1984b: 4; 1988: 195–197; 2000a: 59). Alternative classification as *Bathycallionymus regani* by NAKABO (1982b: 79).

Callionymus reticulatus Valenciennes in Cuvier & Valenciennes, 1837
Reticulated dragonet

Callionymus reticulatus Valenciennes in Cuvier & Valenciennes, 1837: 284–285 (Malaga/Spain, type locality).

Type. *Callionymus reticulatus* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1528 (holotype, bad condition). – **Type catalogues**: FRICKE (1982b: 65); FRICKE, BAUCHOT & DESOUTTER (1984: 107, MNHN); FRICKE (1999b: 12).

Distribution. Norway; Germany; Netherlands; Ireland; Great Britain; Portugal; Azores; Spain (Atlantic coast); Western Sahara; Mediterranean Sea (a single record from Malaga/Spain). Record from Azores based on SMNS 20645 (1, Horta, Faial, 38°32'N 28°38'W, 11 m depth).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of FRICKE (1986a: 149; 1986c: 1090–1091; 1987: 1006).

Callionymus risso LeSueur, 1814
Risso's dragonet
Fardatgo (Spain)

Callionymus risso LeSueur, 1814: 5–6, figs 16, 16 A-B (Nice/Mediterranean Sea, France, type locality).
Callionymus belenus Risso, 1827: 263–264 (Nice/Mediterranean Sea, France, type locality).
Callionymus morissonii Risso, 1827: 265–266, pl. 6, fig. 12 (Nice/Mediterranean Sea, France, type locality; on *Callionymus sagitta* (non Pallas, 1770) Risso, 1810: 105–106).
Callionymus sueurii Valenciennes in Cuvier & Valenciennes, 1837: 291 (part: non *Callionymus elegans* LeSueur, 1814).
Calionymus lodrinus Chiereghini in Nardo, 1847: col. 115 (Venezia/Italy, type locality).
Calionymus schillinus Chiereghini in Nardo, 1847: col. 115 (Venezia/Italy, type locality).

Types. *Callionymus risso* LeSueur, 1814: MNHN A.1540 (1 syntype); MNHN A.1552-A.1544 (3 syntypes). – *Callionymus belenus* Risso, 1827: No type material available. – *Callionymus morissonii* Risso, 1827: No type material available. – *Callionymus sueurii* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1545 (2 syntypes, Naples). – *Calionymus*

lodrinus Chiereghini in Nardo, 1847: No type material available. – *Calionymus schillinus* Chiereghini in Nardo, 1847: No type material available. – **Type catalogues**: FRICKE (1982b: 65); FRICKE, BAUCHOT & DESOUTTER (1984: 107, 108, MNHN).

Distribution. Portugal; Mediterranean Sea (Spain; France; Italy; Croatia; Tunisia; Malta; Greece; Turkey; Lebanon; Israel); Black Sea (Bulgaria; Romania; Ukraina; Russia; Georgia; Turkey).

Remarks. Subgenus *Callionymus (Callionymus)*. Taxonomic decision of FRICKE (1986a: 151; 1986c: 1091–1092; 1987: 1006).

Callionymus rivatoni Fricke, 1993

New Caledonian longtail dragonet

Callionymus gardineri rivatoni Fricke, 1993b: 365–368, fig. 1 (Baie de Saint-Vincent/Grande Terre, New Caledonia, 22°05'S 166°10'E, 15 m depth, type locality; Grande Terre Group, Ile des Pins/New Caledonia).

Types. *Callionymus gardineri rivatoni* Fricke, 1993: MNHN 1993–0120 (holotype); MNHN 1993–0119 (1 paratype); SMNS 12271 (1 paratype); SMNS 12272 (1 paratype). – **Type catalogues**: FRICKE (1995: 6–7, SMNS).

Distribution. East Coral Sea (Chesterfield Islands; Banc du Sable Group); New Caledonia (Grande Terre Group).

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of FRICKE (2000a: 4, 19–20).

Callionymus russelli Johnson, 1976

Russell's dragonet

CAAB Code (Australia): 37 427022

Callionymus russelli Johnson, 1976: 345–349, figs 1–2, pl. 1 (10 km east of Scarborough, Moreton Bay, Queensland, Australia, 14–16 m depth, type locality).

Types. *Callionymus russelli* Johnson, 1976: CAS 31860 (holotype); CAS 31861 (10 paratypes); CAS 31862 (1 paratype); CAS 31863 (1 paratype); CAS 31864 (1 paratype); QM I.17254 (3 paratypes). – **Type catalogue**: FRICKE (1982b: 65).

Distribution. Papua New Guinea (Gulf); Australia (Northern Territory; Queensland; New South Wales). The species has been collected at depths of 3–29 m.

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE (1983b: 253–258; 2000a: 5; 2001a: 3565). Alternative classification as *Repomucenus russelli* by NAKABO (1982b: 81).

Callionymus sagitta Pallas, 1770

Arrow-headed darter dragonet

Duan-Qi-Xian (People's Republic of China); Ch'am-jugok-Yangt'ae (Korea)

Callionymus sagitta Pallas, 1770: 29–31, pl. 4, figs 4–5 (Amboina/Ambon, Maluku, Indonesia; type locality is mouth of River Hooghly, Sundarbans, West Bengal, India, as changed by Opinion 1388, 1986: 132–133).

Callionymus serrato-spinosus Gray, 1835: pl. 90, figs 3, 3 A-B (India, type locality).

Types. *Callionymus sagitta* Pallas, 1770: SU 41392 (neotype, as fixed by Opinion 1388, 1986: 132–133). – *Callionymus serrato-spinosus* Gray, 1835: No type material available.

Distribution. Sri Lanka; India (Bay of Bengal); Singapore; Malaysia (Sarawak; Sabah); Thailand (Gulf of Thailand); People's Republic of China (South China Sea; East China Sea); Korea; Indonesia (Sumatera; Bangka; Java; Sumbawa; Kalimantan;

Sulawesi). Record from Korea based on SMNS 11230 (2, Uen-dong, Kunsan-shi, 35°51'N 126°40'E).

Remarks. Subgenus *Callionymus (Callimucenus)*. Taxonomic decision of Fricke (1981f: 161; 1983b: 258–266; 1984a: 58–60; 1984b: 4; 1988: 197–203; 2000b: 634; 2001a: 3566); Fricke & Wu (1986: 11; 1992: 10–11); Opinion 1388 (1986: 132–133). Alternative classification as *Repomucenus sagitta* by Nakabo (1982b: 81), Nakabo, Jeon & Li (1991: part, 255–261).

Callionymus scaber McCulloch, 1926

Lord Howe longtail dragonet

CAAB Code (Australia): 37 427036

Callionymus, Calliurichthys, japonicus var. *scaber* McCulloch, 1926: 197 (Lord Howe Island, type locality).

Types. *Callionymus, Calliurichthys, japonicus* var. *scaber* McCulloch, 1926: AMS I.4079 (lectotype, as designated by Fricke, 2002b: 11); AMS I.3122 (1 syntype); AMS I.5133 (1 syntype); AMS I.9282 (1 syntype). – **Type catalogue**: Fricke (1982b: 69).

Distribution. Lord Howe Island.

Remarks. Subgenus *Callionymus (Calliurichthys)*. Taxonomic decision of Fricke (2002b: 9–11).

Callionymus scabriceps Fowler, 1941

Tiny longtail dragonet

Callionymus scabriceps Fowler, 1941a: 4–6, fig. 2 (Jolo, Jolo Islands, Philippines, type locality; Mindanao/Philippines).

Types. *Callionymus scabriceps* Fowler, 1941: USNM 99406 (holotype); USNM 99407 (1 paratype). – **Type catalogue**: Fricke (1982b: 69).

Distribution. Myanmar; Philippines.

Remarks. Subgenus *Callionymus* (subgen. 8). Taxonomic decision of Fricke (1980: 90–95; 1983b: 433–436; 1988: 277–279; 2000a: 57; 2000b: 634). Alternative classification as *Calliurichthys scabriceps* by Nakabo (1982b: 80).

Callionymus schaapii Bleeker, 1852

Schaap's dragonet

Callionijmus schaapii Bleeker, 1852: 455 (Banka/Pulau Bangka, Indonesia, type locality).

Types. *Callionijmus schaapii* Bleeker, 1852: No type material available.

Distribution. India (Gulf of Mannar); Thailand (Phuket); Malaysia (Penang); Singapore; Indonesia (Sumatera; Bangka; Java); Thailand (Gulf of Thailand); People's Republic of China (South China Sea); Taiwan; Philippines. **New record** from Phuket/Thailand based on ROM 68856 (1).

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of Fricke (1983b: 266–271; 1988: 203–206; 2000b: 634); Fricke & Wu (1986: 11; 1992: 9). Alternative classification as *Repomucenus schaapii* by Nakabo (1982b: 81).

Callionymus semeiophor Fricke, 1983

Nusa Tenggara deepwater dragonet

Callionymus (Callionymus) semeiophor Fricke, 1983b: 745–750, fig. A2 (Saleh Bay, northern

Sumbawa, Indonesia, 50–150 m depth, type locality; southeastern Lombok, Indonesia, 150–280 m depth).

Types. *Callionymus (Callionymus) semeiophor* Fricke, 1983: NTM S.10764–001 (holotype); NTM S.10760–002 (1 paratype).

Distribution. Indonesia (Lombok; Sumbawa).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of Fricke (1983b: 745–750; 1988: 207–209; 2000a: 54).

Callionymus sereti Fricke, 1998
Séret's dragonet

Callionymus sereti Fricke, 1998: 6–9, fig. 2 (Futuna Island shelf / Wallis & Futuna, 14°19'30"S 178°04'18"W, 245–400 m depth, type locality).

Types. *Callionymus sereti* Fricke, 1998: MNHN 1995–0523 (holotype); SMNS 18824 (1 paratype).

Distribution. Wallis & Futuna (Futuna).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of Fricke (2000a: 57).

Callionymus simplicicornis Valenciennes in Cuvier & Valenciennes, 1837
Pacific ruddertail dragonet

Callionymus simplicicornis Valenciennes in Cuvier & Valenciennes, 1837: 303 (Guam, type locality).

Callionymus xanthosemeion Fowler, 1925: 18–19 (Guam, type locality).

Callionymus boleogenys Fowler, 1941a: 6–7, fig. 3 (Pandanan Island/Philippines, type locality).

Types. *Callionymus simplicicornis* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1518 (holotype). – *Callionymus xanthosemeion* Fowler, 1925: BPBM 3412 (holotype); USNM 109401 (1 paratype). – *Callionymus boleogenys* Fowler, 1941: USNM 99408 (holotype); USNM 99409 (1 paratype). – **Type catalogues**: Boehlke (1984: 33, ANSP paratype of *C. xanthosemeion* not found); Fricke (1982b: 69); Fricke, Bauchot & Desoutter (1984: 107, MNHN).

Distribution. Philippines; Palau/Belau; Guam; Commonwealth of the Northern Marianas; Federated States of Micronesia; Marshall Islands; Loyalty Islands (Lifou); Fiji; Western Samoa; Cook Islands; Society Islands; Tuamotu Archipelago; Gambier Islands; Marquesas Islands. **New record** from Commonwealth of the Northern Marianas based on ANSP 117180 (1, Saipan). **New record** from Loyalty Islands based on SMNS 23041 (2, Baie du Santal, Lifou Island).

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1982a: 136–138; 1983b: 437–441; 1989a: 53–54; 2000b: 634). Alternative classification as *Pseudocalliurichthys simplicicornis*, *P. xanthosemeion* and *P. boleogenis* by Nakabo (1982b: 81).

Callionymus sokonumeri Kamohara, 1936
Japanese highfin deepwater dragonet
Soko-numeri (Japan)

Callionymus sokonumeri Kamohara, 1936: 448, fig. 2 (Mimase Market, Tosa Province, Shikoku, Japan, 80 fms/146 m depth, type locality).

Types. *Callionymus sokonumeri* Kamohara, 1936: BSKU uncat. (holotype, apparently destroyed in 1945 according to Eschmeyer, 1998: 1577).

Distribution. Japan (Owase/Mie Preceture to Tosa Bay/Shikoku and Kagoshima Bay/Kyushu).

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (1981e: 375; 1983b: 272–276; 2000a: 54). Alternative classification as *Bathycallionymus sokonumeri* by NAKABO (1982b: 79; 1983a: 206–208; 1993: 985).

Callionymus sphinx Fricke & Heckele, 1984

Sphinx dragonet

CAAB Code (Australia): 37 427024

Callionymus sphinx Fricke & Heckele, 1984: 368–370, fig. 1 (Shoal Bay, Northern Territory, Australia, type locality).

Type. *Callionymus sphinx* Fricke & Heckele, 1984: NTM S.10183–001 (holotype).

Distribution. Northern Territory/Australia.

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE & HECKELE (1984: 368–370); FRICKE (1988: 210–211; 2000a: 5).

Callionymus spiniceps Regan, 1908

Seychelles spiny dragonet

Callionymus spiniceps Regan, 1908: 249, pl. 30, fig. 4 (Amirante Islands/Seychelles, more than 30 fms (55 m) depth, type locality).

Type. *Callionymus spiniceps* Regan, 1908: BMNH 1908.3.23.262 (holotype). – **Type catalogue**: FRICKE (1982b: 70).

Distribution. Amirantes; Seychelles; Saya de Malha Bank. The species has been collected at depths of 45–125 m.

Remarks. Subgenus *Callionymus (Spinicapitichthys)*. Taxonomic decision of FRICKE (1983b: 476–480; 1984b: 4; 1988: 299–301). Alternative classification as *Spinicapitichthys spiniceps* by NAKABO (1982b: 82).

Callionymus stigmatopareius Fricke, 1981

Mozambique dragonet

Callionymus stigmatopareius Fricke, 1981a: 161–166, fig. 1 (Lumbo, Mozambique, type locality).

Types. *Callionymus stigmatopareius* Fricke, 1981: BMNH 1920.3.8.86 (holotype). – **Type catalogue**: FRICKE (1982b: 66).

Distribution. Mozambique. Known only from the holotype.

Remarks. Subgenus *Callionymus (Paradiplogrammus)*. Taxonomic decision of FRICKE (1981a: 161–166; 1983b: 276–279; 1984b: 4; 1988: 212–214). Alternative classification as *Paradiplogrammus stigmatopareius* by NAKABO (1982b: 80).

Callionymus sublaevis McCulloch, 1926

Australian filamentous dragonet

CAAB Code (Australia): 37 427010

Callionymus limiceps var. *sublaevis* McCulloch, 1926: 204 (Hummocky Island, near Cape Capricorn/Queensland, Australia, 14–16 fms (25–29 m) depth, type locality).

Types. *Callionymus limiceps* var. *sublaevis* McCulloch, 1926: AMS E.6715 (1 syntype); AMS IA.1727 (1 syntype).

Distribution. Australia (Western Australia; Northern Territory; Queensland; New South Wales). The species has been collected at depths of 5–38 m.

Remarks. Subgenus *Callionymus (Velesionymus)*. Taxonomic decision of FRICKE (1983b: 279–284; 1988: 214–218; 2000a: 5; 2001a: 3567). Alternative classification as *Repomucenus sublaevis* by NAKABO (1982b: 81).

Callionymus superbus Fricke, 1983
Superb dragonet

Callionymus (Calliurichthys) superbus Fricke, 1983b: 442–448, fig. 131 (Indonesia, type locality; Bali, Sulawesi, Maluku/Indonesia).

Types. *Callionymus superbus* Fricke, 1983: RMNH 6219 (holotype); NTM uncat. (1 paratype); RMNH 28787 (4 paratypes); SMNS 8561 (1 paratype); ZMB 122482 (1 paratype). – **Type catalogues**: FRICKE (1995: 7, SMNS); FRICKE & PAEPKE (1992: 97, ZMB).

Distribution. Indonesia (Bali; Sulawesi; Maluku).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of FRICKE (1988: 280–282; 2000a: 57).

Callionymus tenuis Fricke, 1981
Tiny dragonet

Callionymus (Calliurichthys) tenuis Fricke, 1981d: 387–390, fig. 1 (South Nilandu Atoll/Maldives, type locality).

Types. *Callionymus (Calliurichthys) tenuis* Fricke, 1981: FMNH 78916 (holotype). – **Type catalogues**: FRICKE (1982b: 69); IBARRA & STEWART (1987: 20).

Distribution. Maldives. Known only from the holotype.

Remarks. Subgenus *Callionymus* (subgen. 5). Taxonomic decision of FRICKE (1981d: 387–390; 1983b: 449–451; 1984b: 4; 1988: 283–284). Alternative classification as *Pseudocalliurichthys tenuis* by NAKABO (1982b: 81).

Callionymus tethys Fricke, 1993
Tethys dragonet

Callionymus tethys Fricke, 1993b: 369–371, fig. 2 (38 km SSE Nouméa/Grande Terre, New Caledonia, 22°37'54"S 166°41'06"E, 35 m depth, type locality; Grande Terre Group/New Caledonia, Loyalty Islands).

Types. *Callionymus tethys* Fricke, 1993: MNHN 1993–0136 (holotype); MNHN 1993–0124 (1 paratype); MNHN 1993–0125 (1 paratype); MNHN 1993–0126 (1 paratype); MNHN 1993–0127 (1 paratype); MNHN 1993–0128 (1 paratype); MNHN 1993–0129 (1 paratype); MNHN 1993–0130 (1 paratype); MNHN 1993–0131 (1 paratype); MNHN 1993–0132 (1 paratype); MNHN 1993–0133 (1 paratype); MNHN 1993–0134 (1 paratype); MNHN 1993–0135 (1 paratype); SMNS 12266 (1 paratype); SMNS 12267 (2 paratypes); SMNS 12268 (1 paratype); SMNS 12269 (4 paratypes). – **Type catalogue**: FRICKE (1995: 7, SMNS).

Distribution. East Coral Sea (Banc du Sable Group); New Caledonia (Grande Terre Group); Loyalty Islands (Ouvéa Group).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of FRICKE (2000a: 4, 24–26, 64).

Callionymus umbrithorax Fowler, 1941
Philippine darkthroat dragonet

Callionymus umbrithorax Fowler, 1941a: 3–4, fig. 1 (Cliff Island, Malampaya Sound, Palawan, Philippines, 10°50'N 119°22'03"E, 7 fms (13 m) depth, type locality).

Types. *Callionymus umbrithorax* Fowler, 1941: USNM 99433 (holotype); USNM 99434 (1 paratype). – **Type catalogue**: Fricke (1982b: 66).

Distribution. Philippines (Palawan; Cabuyan Grande; Destacado).

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of Fricke (1983b: 284–286; 2000b: 634). Alternative classification as *Repomucenus umbrithorax* by Nakabo (1982b: 81).

Callionymus valenciennei Temminck & Schlegel, 1845
Valenciennes' dragonet
Hatatate-numeri (Japan); Sil-yang-tae (Korea)

Callionymus valenciennei Temminck & Schlegel, 1845: 153–154, pl. 78, fig. 3 (part: Japan/is Nagasaki, Kyushu, type locality).

Callionymus flagris Jordan & Fowler, 1903: 952–954, fig. 7 (Iokogama/Yokohama, Japan, type locality; Aomori, Tsuruga/Suruga, Kobe, Nagasaki, Tokyo/Japan).

Types. *Callionymus valenciennei* Temminck & Schlegel, 1845: RMNH 2078 (lectotype as designated by Boeseman, 1947: 131–133). – *Callionymus flagris* Jordan & Fowler, 1903: SU 7187 (holotype); CAS 7741 (38 paratypes, Suruga); SU 4624 (22 paratypes, Tokyo); SU 7141 (1 paratype, Kobe); SU 7747 (63 paratypes, Aomori); SU 10687 (3 paratypes, Nagasaki). – **Type catalogue**: Boehlke (1953: 103, SU).

Distribution. Japan; People's Republic of China (East China Sea; South China Sea); Taiwan. The species is found at 5–27 m depth.

Remarks. Subgenus *Callionymus (Repomucenus)*. Taxonomic decision of Fricke (1983b: 287–293; 2000b: 634); Fricke & Wu (1986: 11; 1992: 12–13). Alternative classification as *Repomucenus valenciennei* by Nakabo (1982b: 81; 1983a: 241–244; 1993: 995).

Callionymus variegatus Temminck & Schlegel, 1845
Variegated ruddertail dragonet
Itohiki-numeri (Japan)

Callionymus variegatus Temminck & Schlegel, 1845: 153 (part: Japan/is Nagasaki, Kyushu, type locality).

Types. *Callionymus variegatus* Temminck & Schlegel, 1845: RMNH 2096 (lectotype, as designated by Boeseman, 1947: 130–131).

Distribution. Japan; Taiwan.

Remarks. Subgenus *Callionymus (Pseudocalliurichthys)*. Taxonomic decision of Fricke (1982a: 134–136; 1983b: 451–455); Fricke & Wu (1992: 14). Alternative classification as *Pseudocalliurichthys variegatus* by Nakabo (1982b: 81; 1983a: 227–229; 1993: 993).

Callionymus virgis Jordan & Fowler, 1903
Virgin dragonet
Hora-numeri (Japan)

Callionymus virgis Jordan & Fowler, 1903: 957–958, fig. 9 (Misaki/Japan, type locality).

Type. *Callionymus virgis* Jordan & Fowler, 1903: SU 7189 (holotype). – **Type catalogues**: Boehlke (1953: 104, SU); Fricke (1982b: 67).

Distribution. Japan; People's Republic of China (East China Sea); Taiwan.

Remarks. Subgenus *Callionymus* (subgen. 1). Taxonomic decision of FRICKE (1983b: 293–297); FRICKE & WU (1986: 11; 1992: 11). Alternative classification as *Repomucenus virgis* by NAKABO (1982b: 81; 1983a: 233–234; 1993: 994).

Callionymus whiteheadi Fricke, 1981

Whitehead's deepwater dragonet

Callionymus whiteheadi Fricke, 1981e: 360–361, fig. 8 (off Bali, Indonesia, 08°50'S 114°14'E, 110–220 m depth, type locality).

Types. *Callionymus whiteheadi* Fricke, 1981: BMNH 1980.6.20.1 (holotype); BMNH 1980.11.25.2 (1 paratype). – **Type catalogue**: FRICKE (1982b: 67).

Distribution. Indonesia (Java; Kangean; Bali). The species has been collected on mud bottoms at depths of 100–220 m.

Remarks. Subgenus *Callionymus (Bathycallionymus)*. Taxonomic decision of FRICKE (1981e: 360–361); FRICKE (1983b: 297–300; 1988: 218–220; 2000a: 59). Alternative classification as *Bathycallionymus whiteheadi* by NAKABO (1982b: 79).

Callionymus zythros Fricke, 2000

New Guinea longtail dragonet

Callionymus zythros Fricke, 2000a: 62–66, fig. 30 (Papua New Guinea, Madang Province, Wongat Island, 20–27 m depth).

Type. *Callionymus zythros* Fricke, 2000: BPBM 38532 (holotype).

Distribution. Papua New Guinea (Madang).

Remarks. Subgenus *Callionymus* (subgen. 6). Taxonomic decision of FRICKE (2000a: 62–66).

4.1.3. Genus *Chalinops* Smith, 1963

Chalinops Smith, 1963: 552 (type species: *Callionymus floridae* Fowler, 1941 by original designation).

Chalinops pauciradiatus (Gill, 1865)

Western Atlantic shortfin dragonet

Callionymus pauciradiatus Gill, 1865: 143–144 (Matanzas, Cuba, type locality).
Callionymus calliurus Eigenmann & Eigenmann, 1888: 76–78 (off South Beach, Key West, Florida, U.S.A., 5 fms depth, type locality).
Callionymus bermudarum Barbour, 1905: 129–130 (Castle Island and Ireland Island, Bermuda, 6–8 fms (11–15 m) depth, type locality).
Callionymus dubiosus Parr, 1930: 130–132, fig. 36 (Cat Island, Bahamas, type locality).
Callionymus floridae Fowler, 1941b: 92–94, figs 5–6 (2 miles off Boca Chica Key, Florida, U.S.A., 1–5 fms (2–9 m) depth, type locality).

Types. *Callionymus pauciradiatus* Gill, 1865: USNM 119800 (holotype). – *Callionymus calliurus* Eigenmann & Eigenmann, 1888: MCZ 26265 (holotype). – *Callionymus bermudarum* Barbour, 1905: MCZ 29055 (3 syntypes). – *Callionymus dubiosus* Parr, 1930: YPM 2531 (holotype). – *Callionymus floridae* Fowler, 1941: ANSP 69717 (holotype). – **Type catalogues**: BOEHLKE (1984: 32, ANSP); FRICKE (1982b: 70).

Distribution. Western Atlantic: Canada (Newfoundland, larvae only); Bermuda; U.S.A. (North Carolina; South Carolina; Florida); Bahamas; Jamaica; Cayman

Island; Cuba; Dominican Republic; Puerto Rico; Virgin Islands; St. Eustatius; Antigua; Colombia; Panama; Venezuela; Curaçao.

Remarks. Taxonomic decision of FRICKE (1986a: 154–155). Alternative classification as *Diplogrammus pauciradiatus* and *D. dubiosus* by NAKABO (1982b: 80).

4.1.4. Genus *Dactylopus* Gill, 1860

Dactylopus Gill, 1860: 130 (type species: *Callionymus dactylopus* Bennett in Cuvier & Valenciennes, 1837 by monotypy).
Vulsus Günther, 1861: 151 (replacement name for *Dactylopus* Gill, 1860, allegedly preoccupied).

Remarks. Taxonomic decision of FRICKE (1983b: 481–482).

Dactylopus dactylopus (Bennett in Cuvier & Valenciennes, 1837)
Fingered dragonet
Ippon-teguri (Japan); Cá ma ich (Vietnam)
CAAB Code (Australia): 37 427005

Callionymus dactylopus Bennett in Valenciennes in Cuvier & Valenciennes, 1837: 310–311 (locality not stated).
Dactylopus bennetti Gill, 1859: 130 (unnecessary replacement name for *Callionymus dactylopus* Bennett in Cuvier & Valenciennes, 1837; no type locality).

Types. *Callionymus dactylopus* Bennett in Cuvier & Valenciennes, 1837: No type material available. – *Dactylopus bennetti* Gill, 1860: No type material available. – **Type catalogues**: FRICKE (1982b: 71); FRICKE, BAUCHOT & DESOUTTER (1984: 108, MNHN).

Distribution. Thailand (Phuket); Ryukyu Islands; Taiwan; People's Republic of China (East China Sea; South China Sea); Vietnam; Thailand (Gulf of Thailand); Malaysia (east coast of Malaya); Singapore; Indonesia (Nusa Tenggara; Sulawesi; Maluku); Philippines; Palau/Belau; Australia (Western Australia; Northern Territory; Queensland; New South Wales).

Remarks. Taxonomic decision of FRICKE (1983b: 483–491; 1988: 306–309; 2000a: 5; 2000b: 634; 2001a: 3568); FRICKE & WU (1986: 12; 1992: 20).

4.1.5. Genus *Diplogrammus* Gill, 1865

Diplogrammus Gill, 1865: 143, footnote (type species: *Callionymus goramensis* Bleeker, 1858 by original monotypy).
Calymmichthys Jordan & Thompson, 1914: 296 (type species: *Calymmichthys xenicus* Jordan & Thompson, 1914 by monotypy).
Dicallionymus Fowler, 1941a: 29 (type species: *Callionymus goramensis* Bleeker, 1858 by original designation).
Dermosteira Schultz, 1943: 267 (type species: *Dermosteira dorotheae* Schultz, 1943 by monotypy).
Climacogrammus Smith, 1963: 550 (type species: *Diplogrammus (Climacogrammus) infulatus* Smith, 1963 by original designation and monotypy; as subgenus of *Diplogrammus*).
Diplogrammoides Smith, 1963: 550 (type species: *Diplogrammus (Diplogrammoides) gruveli* Smith, 1963 by original designation and monotypy; as subgenus of *Diplogrammus*).

Remarks. Taxonomic decision of FRICKE (1983b: 491–492).

Diplogrammus goramensis (Bleeker, 1858)

Goram dragonet

Minami-kobunumeri (Japan) CAAB Code (Australia): 37 427026

Callionymus goramensis Bleeker, 1858: 214 (Goram Archipelago/Kepulauan Gorong, Maluku, Indonesia, type locality).
Callionymus cookii Günther, 1872: 665 (Rarotonga/Cook Islands, type locality).
Dermosteira dorotheae Schultz, 1943: 267–268, fig. 26 (Rose Island/American Samoa, type locality).

Types. *Callionymus goramensis* Bleeker, 1858: RMNH 4812 (2 syntypes). – *Callionymus cookii* Günther, 1872: BMNH 1871.9.13.230 (holotype). – *Dermosteira dorotheae* Schultz, 1943: USNM 115735 (holotype). – **Type catalogue**: Fricke (1982b: 71).

Distribution. Ryukyu Islands; People's Republic of China (South China Sea); Vietnam; Cocos-Keeling Islands; Indonesia (Maluku); Philippines; Palau/Belau; Federated States of Micronesia; Guam; Commonwealth of the Northern Marianas; Marshall Islands; Papua New Guinea; Australia (Western Australia; Queensland); Norfolk Island; East Coral Sea (Chesterfield Islands); New Caledonia (Grande Terre); Loyalty Islands (Ouvéa; Lifou); Solomon Islands (Santa Cruz Islands); Vanuatu (Banks Group); Kiribati (Gilbert Islands); Rotuma; Fiji; Tonga (Vava'u; E'ua); American Samoa (Tutuila; Rose); Cook Islands (Rarotonga). **New record** from Lifou/Loyalty Islands based on SMNS 23040 (8, Baie du Santal, at Xepenehe).

Remarks. Subgenus *Diplogrammus (Diplogrammus)*. Taxonomic decision of Fricke (1983b: 493–504; 2000a: 4, 5, 26–27; 2000b: 634); Fricke & Wu (1986: 12; 1992: 20–21).

Diplogrammus gruveli Smith, 1963

Gruvel's dragonet

Diplogrammus (Diplogrammoides) gruveli Smith, 1963: 551–552, fig. 2, pl. 86 G (Great Bitter Lake/Suez Canal, type locality).

Types. *Diplogrammus (Diplogrammoides) gruveli* Smith, 1963: RUSI 154 (holotype); MNHN 1963–0186 (1 paratype). – **Type catalogues**: Fricke (1982b: 71); Fricke, Bauchot & Desoutter (1984: 107, MNHN).

Distribution. Known only from Suez Canal, probably originating from lagoon habitats in Gulf of Suez/Red Sea).

Remarks. Subgenus *Diplogrammus (Diplogrammoides)*. Taxonomic decision of Fricke (1981b: 689; 1983b: 524–529; 1984b: 4; 1988: 314–317).

Diplogrammus infulatus Smith, 1963

Indian Ocean fold dragonet

Sawspine dragonet (South Africa); Saagstekel-drakie (Afrikaans, South Africa)

Diplogrammus (Climacogrammus) infulatus Smith, 1963: 550, pl. 83, figs E-I (Inhaca/Mozambique, type locality).

Types. *Diplogrammus (Climacogrammus) infulatus* Smith, 1963: RUSI 131 (holotype); MNHN 1963–0187 (1 paratype); RUSI 169 (1 paratype); RUSI 475–488 (17 paratypes); USNM 197722 (1 paratype). – **Type catalogues**: Fricke (1982b: 72); Fricke, Bauchot & Desoutter (1984: 107, MNHN).

Distribution. Red Sea (Egypt; Sudan; Eritrea); Kenya; Mozambique; Madagascar; Aldabra; Seychelles; Mauritius; Rodriguez.

Remarks. Subgenus *Diplogrammus (Climacogrammus)*. Taxonomic decision of

FRICKE (1981b: 689; 1983b: 509–513; 1984b: 4; 1986b: 772; 1988: 318–320; 1999a: 493–494).

Diplogrammus pygmaeus Fricke, 1981
Pygmy dragonet

Diplogrammus (Climacogrammus) pygmaeus Fricke, 1981b: 685–692, figs 1–2 (South Arabian coast/Oman, 19°22'36"N 57°53'00"E, 13.5 m depth, type locality; Muscat, Gulf of Oman).

Types. *Diplogrammus (Climacogrammus) pygmaeus* Fricke, 1981: BMNH 1939.5.24.1431 (holotype); BMNH 1887.6.8.5 (1 paratype). – **Type catalogue**: FRICKE (1982b: 76).

Distribution. Oman; Persian Gulf.

Remarks. Subgenus *Diplogrammus (Climacogrammus)*. Taxonomic decision of FRICKE (1983b: 513–517; 1984b: 4; 1988: 321–323).

Diplogrammus randalli Fricke, 1983
Randall's fold dragonet

Diplogrammus (Climacogrammus) randalli Fricke, 1983b: 518–524, fig. 155 (Eilat, Gulf of Aqaba/Israel, type locality).

Types. *Diplogrammus (Climacogrammus) randalli* Fricke, 1983: HUJF 6673 (holotype); BPBM 18186 (1 paratype); BPBM 18304 (1 paratype); BPBM 19882 (1 paratype); HUJF 5230 (1 paratype); HUJF 8062 (1 paratype); HUJF 8069 (1 paratype); HUJF 8073 (4 paratypes); HUJF 8084 (1 paratype); HUJF 10462 (5 paratypes); HUJF 10464 (1 paratype); HUJF 10465 (3 paratypes); HUJF 10518 (1 paratype); TAU P.7728 (4 paratypes); TAU P.8136 (1 paratype).

Distribution. Red Sea (Gulf of Suez, Gulf of Aqaba, Sanafir Island).

Remarks. Subgenus *Diplogrammus (Climacogrammus)*. Taxonomic decision of FRICKE (1983b: 518–524; 1984b: 4; 1988: 324–326).

Diplogrammus xenicus (Jordan & Thompson, 1914)
Japanese fold dragonet
Kobu-numeri (Japan) CAAB Code (Australia): 37 427027

Calymmichthys xenicus Jordan & Thompson, 1914: 296–297, pl. 36, fig. 2 (Sagami Bay/Japan, type locality).

Types. *Calymmichthys xenicus* Jordan & Thompson, 1914: FMNH 57089 (holotype). – **Type catalogues**: FRICKE (1982b: 76); IBARRA & STEWART (1987: 20).

Distribution. Southern Japan; Ryukyu Islands; Taiwan; Australia (Western Australia).

Remarks. Subgenus *Diplogrammus (Diplogrammus)*. Taxonomic decision of FRICKE & ZAISER (1982: 253–258); FRICKE (1983b: 504–508; 1988: 327–330; 2000a: 5).

4.1.6. Genus *Draculo* Snyder, 1911

Draculo Snyder, 1911: 545 (type species: *Draculo mirabilis* Snyder, 1911 by original monotypy).

Pogonymus Gosline, 1959: 71–72 (type species: *Pogonymus pogognathus* Gosline, 1959 by original monotypy and original designation).

Charibarbitus Smith, 1963: 562 (type species: *Charibarbitus celetus* Smith, 1963 by monotypy and original designation).

Clathropus Smith, 1965: 321–323 (type species: *Clathropus maugei* Smith, 1965 by monotypy and original designation).

Remarks. Taxonomic decision of FRICKE (1983b: 529–530).

Draculo celetus (Smith, 1963)
Onespine dragonet
Dainty dragonet (South Africa); Fyn-drakie (Afrikaans/South Africa)

Charibarbitus celetus Smith, 1963: 562–563, fig. 8 (Inhaca Island, Delagoa Bay/Mozambique, rock pool, type locality).
Type. *Charibarbitus celetus* Smith, 1963: RUSI 158 (holotype).

Distribution. South Africa (Cape Province to Natal); Mozambique (Delagoa Bay).

Remarks. Taxonomic decision of FRICKE (1983b: 531–534; 1984b: 4; 1986b: 772–773; 1988: 336–337). Alternative classification as *Eleutherochir celetus* by NAKABO (1982b: 82).

Draculo maugei (Smith, 1966)
Maugé's dragonet

Clathropus maugei Smith, 1966: 323–324, fig. 1 (northwest of Tuléar/Toliari, Madagascar, beach, 1 m depth, type locality).
Types. *Clathropus maugei* Smith, 1966: RUSI 417 (holotype); RUSI 634 (4 paratypes). – **Type catalogue**: FRICKE (1982b: 72).

Distribution. Madagascar (SW coast).

Remarks. Taxonomic decision of FRICKE (1983b: 535–537; 1984b: 4; 1988: 338–339).

Draculo mirabilis Snyder, 1911
Wonder dragonet
Hage-numeri (Japan); Min-yang-tae (Korea)

Draculo mirabilis Snyder, 1911: 545–546 (Tomakomai, Hakodate/Japan, type locality).
Types. *Draculo mirabilis* Snyder, 1911: USNM 68243 (holotype); SU 21429 (1 paratype); USNM 74547 (1 paratype). – **Type catalogues**: BOEHLKE (1953: 104, SU); FRICKE (1982b: 72).

Distribution. Japan; Korea; Russia (Vladivostok); People's Republic of China (East China Sea).

Remarks. Taxonomic decision of FRICKE (1983b: 538–540); FRICKE & WU (1986: 12; 1992: 21). Alternative classification as *Eleutherochir mirabilis* by NAKABO (1982b: 82; 1983a: 252–253; 1993: 986).

Draculo pogognathus (Gosline, 1959)
Hawaiian wonder dragonet

Pogonymus pogognathus Gosline, 1959: 72–73, fig. 4 (small cove west of Hanalei Bay, Kauai, Hawaiian Islands, 3–10 feet (1–3 m) depth, type locality).
Types. *Pogonymus pogognathus* Gosline, 1959: USNM 175010 (holotype); USNM 175011 (5 paratypes). – **Type catalogue**: FRICKE (1982b: 72).

Distribution. Hawaiian Islands (O'ahu; Moloka'i; Kauai).

Remarks. Taxonomic decision of FRICKE (1983b: 541–544); RANDALL (1998: 196). Alternative classification as *Eleutherochir pogognathus* by NAKABO (1982b: 82).

Draculo shango (Davis & Robins, 1966)
Shango dragonet

Pogonymus shango Davis & Robins, 1966: 106–116, figs 1–4 (beach at the west side of the west jetty at the entrance to the harbour of Lagos, Nigeria, type locality).

Types. *Pogonymus shango* Davis & Robins, 1966: ANSP 103409 (holotype); ANSP 103410 (4 paratypes); ANSP 103411 (2 paratypes); BMNH 1966.2.15.1 (1 paratype); USNM 199728 (12 paratypes). – **Type catalogues**: Boehlke (1984: 33, ANSP); Fricke (1982b: 73).

Distribution. Nigeria; Cameroon.

Remarks. Taxonomic decision of Fricke (1982c: 73; 1986a: 156); Davis & Fricke (1990: 922). Alternative classification as *Eleutherochir shango* by Nakabo (1982b: 82).

4.1.7. Genus *Eleutherochir* Bleeker, 1879

Eleutherochir Bleeker, 1879: 102–103 (type species: *Callionymus opercularis* Valenciennes in Cuvier & Valenciennes, 1837 by monotypy).

Brachycallionymus Herre & Myers in Herre, 1936: 12 (type species: *Brachycallionymus mirus* Herre, 1936 by monotypy).

Remarks. Taxonomic decision of Fricke (1983b: 545).

Eleutherochir opercularis (Valenciennes in Cuvier & Valenciennes, 1837)
Estuarine largemouth dragonet
Ohkuchi-numeri (Japan)

Callionymus opercularis Valenciennes in Cuvier & Valenciennes, 1837: 305–307 (rivière de Arian-Coupan, Pondichéry/Pondicherry, Bay of Bengal, India, type locality).

Callionymus opercularioides Bleeker, 1851: 32 (Padang/Sumatera, Indonesia, type locality).

Callionymus kellersi Fowler & Bean, 1927: 12–13, fig. 2 (Benkoelen/Bengkulu, Sumatera, Indonesia, type locality).

Brachycallionymus mirus Herre, 1936: 12–13 (Romblon, Nasugbu/ Philippines, type locality).

Eleutherochir mccaddeni Fowler, 1941a: 27–29, fig. 16 (Hinunangan Bay, Leyte, Philippines, type locality).

Pogonymus goslinei Rao, 1976: 27–29, fig. 1 (Madras/India, type locality).

Types. *Callionymus opercularis* (Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1514 (holotype). – *Callionymus opercularioides* Bleeker, 1851: BMNH 1880.4.21.153 (1 syntype); NMV A.907 (3 syntypes); NMV 46686 (1 syntype); NMV 46687 (1 syntype); RMNH 4813 (5 syntypes). – *Callionymus kellersi* Fowler & Bean, 1927: USNM 87935 (holotype). – *Brachycallionymus mirus* Herre, 1936: SU 30978 (holotype); USNM 98827 (2 paratypes); USNM 98828 (1 paratype). – *Eleutherochir mccaddeni* Fowler, 1941: USNM 99435 (holotype). – *Pogonymus goslinei* Rao, 1976: ZSI F.6853/2 (holotype); ZSI 6854/2 (7 paratypes). – **Type catalogues**: Boehlke (1953: 103, SU); Fricke (1982b: 73); Fricke, Bauchot & Desoutter (1984: 106, MNHN).

Distribution. Sri Lanka; India (Bay of Bengal; Andaman Islands; Nicobar Islands); Malaysia (Penang); Indonesia (Sumatera; Java; Bali; Sulawesi; Maluku; Irian Jaya); Ryukyu Islands; Philippines; Papua New Guinea (Madang; Wewak; Port Moresby; New Britain; Bougainville).

Remarks. Taxonomic decision of Fricke (1983b: 546–554; 1984b: 4; 1988: 342–346; 2000b: 634; 2001a: 3569).

4.1.8. Genus *Paracallionymus* Barnard, 1927

Paracallionymus Barnard, 1927: 448 (type species: *Callionymus costatus* Boulenger, 1900 by original monotypy).

Remarks. Taxonomic decision of Fricke (1983b: 557).

Paracallionymus costatus (Boulenger 1898)

Cape Dragonet

Dragonet-lyre du Cap (French); Costurones (Spanish); Ladder dragonet (South Africa); Leer-draakie (Afrikaans, South Africa)

Callionymus costatus Boulenger, 1898: 9 ("described from two of four specimens (probably young) procured in trawl 11 miles off Cape St, Blaize in June, 1898, 40 fathoms"/South Africa, type locality).

Paracallionymus fowleri Poll, 1949: 240–242, fig. 15 (Rio de Oro, Western Sahara/is Namibia).

Types. *Callionymus costatus* Boulenger, 1898: BMNH 1898.9.100.5–6 (2 syntypes) (additional SAM specimens are non-types). *Paracallionymus fowleri* Poll, 1949: IRSN 92 (holotype). – **Type catalogues**: Derijst (1991: 59); Fricke (1982b: 74); Walschaerts (1987: 44, IRSN).

Distribution. Namibia; South Africa; Mozambique (Delagoa Bay). The species has been collected at depths of 37–457 m.

Remarks. Taxonomic decision of Fricke (1983b: 558–562; 1984b: 4; 1986a: 157–158; 1986b: 773; 1988: 353–356); Davis & Fricke (1990: 922).

4.1.9. Genus *Protogrammus* Fricke, 1985

Protogrammus Fricke, 1985b: 294–295 (type: *Callionymus sousai* Maul, 1972 by monotypy).

Protogrammus sousai (Maul, 1972)

Meteor dragonet

Callionymus sousai Maul, 1972: 1–7, figs 1–2, 4 (Great Meteor Bank, E Atlantic, 30°01.1'N 28°24.0'W, 315–320 m depth, type locality).

Types. *Callionymus sousai* Maul, 1972: MMF 22877 (holotype); MMF 22389 (1 paratype); MMF 22843a (1 paratype); MMF 22483b (1 paratype). – **Type catalogue**: Fricke (1982b: 66, MMF).

Distribution. East Atlantic: Great Meteor Seamount.

Remarks. Taxonomic decision of Fricke (1985b: 295–297; 1986a: 158; 1986c: 1092–1093); Davis & Fricke (1990: 922).

4.1.10. Genus *Synchiropus* Gill, 1860

Synchiropus Gill, 1860: 129 (type species: *Callionymus lateralis* Richardson, 1844 by original monotypy).

Yerutius Whitley, 1931a: 115 (type species: *Callionymus apricus* McCulloch, 1926 by original designation).

Foetorepus Whitley, 1931b: 323 (type species: *Callionymus calauropomus* Richardson, 1844 by original designation).

Orbonymus Whitley, 1947: 150 (type species: *Callionymus rameus* McCulloch, 1926 by monotypy).

Neosynchiropus Nalbant, 1980: 349 (type species: *Neosynchiropus bacescui* Nalbant, 1980 by monotypy).

Anaoroides Fricke, 1981c: 149 (type species: *Synchiropus zamboanganus* Seale, 1910 by monotypy and original designation; as subgenus).
Eocallionymus Nakabo, 1982b: 89–90 (type species: *Callionymus papilio* Günther, 1864 by monotypy and original designation).
Neosynchiropus Nakabo, 1982b: 92–93 (type species: *Callionymus ocellatus* Pallas, 1770 by original designation; homonym of *Neosynchiropus* Nalbant, 1980).
Pterosynchiropus Nakabo, 1982b: 93–94 (type species: *Callionymus splendidus* Herre, 1927 by original designation).
Minysynchiropus Nakabo, 1982b: 94–95 (type species: *Synchiropus laddi* Schultz, 1960 by original designation).

Synchiropus agassizii (Goode & Bean in Agassiz, 1888)

Western Atlantic dragonet

Callionymus agassizii Goode & Bean in Agassiz, 1888: 29, fig. 207 (Gulf of Mexico/erroneous, is off Barbados, 13°00.5'N 59°36.2'W, 209 fms (382 m) depth, type locality).
Callionymus himantophorus Goode & Bean, 1896: 296–297, pl. 76, figs 268, 268 A-B (new name for Barbados specimens; Barbados, 209 fms (382 m) depth, type locality).

Types. *Callionymus agassizii* Goode & Bean in Agassiz, 1888: MCZ 86660 (lectotype of Davis, 1966); MCZ 27988 (5 paralectotypes); USNM 153582 (2 paralectotypes). – *Callionymus himantophorus* Goode & Bean, 1896: MCZ 27988 (5 syntypes); MCZ 27992 (1 syntype); MCZ 27994 (1 syntype); MCZ 86660 (1 syntype); USNM 47640 (4 syntypes); USNM 153582 (2 syntypes).

Distribution. Caribbean Sea: Mexico; Belize; Honduras.

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of Fricke (1985a: 236–240). Alternative classification as *Foetorepus agassizii* by Nakabo & Hartel (1999: 120, 121).

Synchiropus altivelis (Temminck & Schlegel, 1845)

Highfin bigeye dragonet

Beni-teguri (Japan) CAAB Code (Australia): 37 427030

Callionymus altivelis Temminck & Schlegel, 1845: 155–156, pl. 79, fig. 1 (Ohomura, near Nagasaki, Japan, type locality).
Synchiropus pallidus Fowler, 1941a: 23–24, fig. 14 (locality not stated).

Types. *Callionymus altivelis* Temminck & Schlegel, 1845: RMNH D.1012 (lectotype, as designated by Boeseman, 1947: 134); RMNH 2077 (1 paralectotype). – *Synchiropus pallidus* Fowler, 1941: USNM 99437 (holotype). – **Type catalogue**: Fricke (1982b: 75).

Distribution. Japan; Korea; People's Republic of China (East China Sea; South China Sea); Taiwan; Vietnam; Indonesia (Java); Philippines.

Remarks. Taxonomic decision of Fricke & Wu (1986: 12; 1992: 19–20); Fricke (2000a: 66–69; 2000b: 634). Alternative classification as *Foetorepus altivelis* by Nabako (1993: 987).

Synchiropus atrilabiatus (Garman, 1899)

Eastern Pacific dragonet

Callionymus atrilabiatus Garman, 1899: 122–123 (Isla Malpelo, off Gulf of Panama, type locality).
Callionymus garthi Seale, 1940: 36, pl. 3 (Port Utria, Colombia/Pacific Ocean, type locality).
Synchiropus talarae Hildebrand & Barton, 1949: 21–24, fig. 6 (Talara, Peru, type locality).

Types. *Callionymus atrilabiatus* Garman, 1899: MCZ 28697 (1 syntype); SU 25249 (1 syntype); USNM 153598 (1 syntype). – *Callionymus garthi* Seale, 1940: SU 5746 (holotype). – *Synchiropus talarae* Hildebrand & Barton, 1949: USNM 144258 (holotype). – **Type catalogue**: Fricke (1982b: 74, 75).

Distribution. Tropical eastern Pacific: Mexico (Baja California); Costa Rica; Panama; Colombia; Peru; Galapagos Archipelago.

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of FRICKE (1981c: 33–37; 1983b: 567–571).

Synchiropus australis (Nakabo & McKay, 1989)

Queensland bigeye dragonet

CAAB Code (Australia): 37 427029

Foetorepus australis Nakabo & McKay, 1989: 563–565, figs 1–2 (off Queensland/Australia, 23°59'S 152°59'E, 380 m depth, type locality).

Types. *Foetorepus australis* Nakabo & McKay, 1989: QM I.21255 (holotype).

Distribution. Eastern Australia (southern Queensland, southward to Newcastle/New South Wales).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 5). Alternative classification as *Foetorepus australis* by NABAKO & MCKAY (1989: 563–565).

Synchiropus bartelsi Fricke, 1981

Bartels' dragonet

Synchiropus (Synchiropus) bartelsi Fricke, 1981c: 103–106, fig. 32 (ca. 3/4 miles south of San Juan town, west side of Siquijor Island, Philippine Islands, 09°08'30"N 123°29'22"E, 0–6 m depth, type locality).

Types. *Synchiropus (Synchiropus) bartelsi* Fricke, 1981: USNM 225711 (holotype); USNM 225712 (2 paratypes); USNM 225713 (1 paratype); USNM 227213 (2 paratypes); USNM 227214 (2 paratypes).

Type catalogue: FRICKE (1982b: 75).

Distribution. Indonesia (Flores; Sulawesi); Philippines; Papua New Guinea (New Britain). **New record** from Flores/Indonesia based on AMS I.34503–058 (3, Waigete, 5–6 m depth, 8°35.8'S 122°24.4'E).

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of FRICKE (1981c: 103–106; 1983b: 583–587; 2000b: 634).

Synchiropus calauropomus (Richardson, 1844)

Common stinkfish

CAAB Code (Australia): 37 427001

Callionymus calauropomus Richardson, 1844b: 10–11, pl. 7, figs 4–5, (Australia/is southwestern Australia, type locality).

Callionymus achates DeVis, 1883: 620–621 (Queensland/Australia, type locality).

Types. *Callionymus calauropomus* Richardson, 1844: BMNH 1855.9.19.183 (holotype). – *Callionymus achates* DeVis, 1883: No type material known. – **Type catalogue**: FRICKE (1982b: 75).

Distribution. Australia (Western Australia; South Australia; Victoria; Tasmania; New South Wales; Queensland).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (1981c: 68–72; 1983b: 587–592; 1988: 370–374; 2000a: 5, 68; 2001a: 3570). Alternative classification as *Foetorepus calauropomus* by NAKABO (1982b: 79).

Synchiropus circularis Fricke, 1984
Circled dragonet

Synchiropus (Synchiropus) circularis Fricke, 1984c: 68–71, fig. 1 (Beach Cave Cove, northwest of Tinian Town, Tinian/Commonwealth of the Northern Marianas, 14°59.7'N 145°36.2'E, type locality).

Types. *Synchiropus (Synchiropus) circularis* Fricke, 1984: USNM 267390 (holotype); BPBM 29653 (1 paratype); UG 5130 (1 paratype); UG 5764 (1 paratype); USNM 267391 (1 paratype).

Distribution. Malaysia (Sabah); Philippines (Visayas); Guam; Commonwealth of the Northern Marianas (Tinian); Chesterfield Islands (East Coral Sea).

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of Fricke (1984c: 68–71; 2000a: 4, 27–29).

Synchiropus claudiae Fricke, 1990
Claudia's dragonet
CAAB Code (Australia): 37 427042

Synchiropus claudiae Fricke, 1990: 2–9, fig. 1 (Papua New Guinea, Madang barrier reef, 5°15'S 145°50'E, 5 m depth, type locality; Port Moresby/Papua New Guinea).

Types. *Synchiropus claudiae* Fricke, 1990: SMNS 9048 (holotype); SMNS 8466 (1 paratype); SMNS 8479 (1 paratype); SMNS 9049 (2 paratypes). – **Type catalogues**: Fricke (1995: 7, SMNS).

Distribution. Papua New Guinea (Madang; Port Moresby); Australia (Queensland, southward to 15°45'S).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of Fricke (1990: 2–9; 2000a: 5).

Synchiropus dagmarae Fricke, 1985
Dagmar's dragonet
Beni-numeri (Japan)

Synchiropus (Synchiropus) agassizi dagmarae Fricke, 1985a: 241–245, fig. 3 (Venezuela, 09°45'N 59°45'W, type locality; Florida, Suriname, Brazil, Uruguay).

Types. *Synchiropus (Synchiropus) agassizi dagmarae* Fricke, 1985: USNM 188521 (holotype); USNM 266454 (10 paratypes).

Distribution. Barbados; Puerto Rico; Virgin Islands; Venezuela; Guayana; Suriname; Brazil; Uruguay.

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of Fricke (1985a: 241–245; 1986a: 160–161). Alternative classification as *Foetorepus dagmarae* by Nakabo & Hartel (1999: 120, 121).

Synchiropus delandi Fowler, 1943
Deland's dragonet

Synchiropus delandi Fowler, 1943: 81–82, fig. 20 (Sibuko Bay, Mabul Island, northeastern Borneo, 04°12'10"N 118°38'08"E, 260 fms/475 m depth, type locality).

Types. *Synchiropus delandi* Fowler, 1943: USNM 99524 (holotype); USNM 99525 (1 paratype); USNM 99526 (1 paratype); USNM 99527 (1 paratype).

Distribution. Taiwan; Malaysia (Sarawak); Philippines (Mindanao).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of Fricke

(1981c: 65–67; 1983b: 592–595; 2000a: 68; 2000b: 634). Alternative classification as *Foetorepus delandi* by NAKABO (1987: 338).

Synchiropus goodenbeani (Nakabo & Hartel, 1999)
Goode and Bean's dragonet

Foetorepus goodenbeani Nakabo & Hartel, 1999: 115–120, figs 3–6 (ca 90 miles S of Montauk Point, Long Island, N.Y., U.S.A., 39°53'N 71°42'W, 180–243 m; holotype MCZ 95955; New England to Gulf of Mexico, 47–396 m depth).

Types. *Foetorepus goodenbeani* Nakabo & Hartel, 1999: MCZ 95955 (holotype); BMNH 1933.10.12.85 (1 paratype); FAKU 57148 (1 paratype); FDNR 2227 (1 paratype); GCRL V.62:763 (1 paratype); MCZ 38492 (1 paratype); MCZ 54855 (1 paratype); MCZ 76000 (1 paratype); MCZ 76001 (1 paratype); MCZ 85838 (2 paratypes); MCZ 95954 (1 paratype); MCZ 123587 (1 paratype); MCZ 150758 (1 paratype); SU 17434 (3 paratypes); SU 17435 (1 paratype); UF 3597 (1 paratype); UF 33153 (1 paratype); UF 33170 (1 paratype); UF 33173 (1 paratype); UF 72138 (2 paratypes); UF 72354 (1 paratype); UF 210121 (5 paratypes); UF 213512 (1 paratype); UF 228669 (1 paratype).

Distribution. U.S.A. (Atlantic coast from Texas/Gulf of Mexico northward to New York).

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of the present paper.

Synchiropus grandoculis Fricke, 2000
Western Australian bigeye dragonet
CAAB Code (Australia): 37 427043

Synchiropus grandoculis Fricke, 2000a: 69–71, fig. 33 (70 km SE of Rowley Shoals, Western Australia, 18°01'S 118°25'E, 351–353 m depth).

Types. *Synchiropus grandoculis* Fricke, 2000: WAM P.20418–001 (holotype); NTM S.12728–041 (1 paratype); SMNS 12822 (2 paratypes).

Distribution. Western Australia (SE of Rowley Shoals).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 5, 69–71).

Synchiropus grinnelli Fowler, 1941
Grinnell's dragonet

Synchiropus grinnelli Fowler, 1941a: 24–26, fig. 15 (San Bernardino Light, east coast of Luzon, San Bernardino Strait to San Miguel Bay, Philippines, 12°55'26"N 124°22'12"E, 195 fms (357 m) depth, type locality).

Types. *Synchiropus grinnelli* Fowler, 1941: USNM 99436 (holotype). – **Type catalogue**: FRICKE (1982b: 75).

Distribution. Taiwan; Philippines. This species has been collected at depths of 210–357 m.

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (1981c: 51–54; 1983b: 595–599; 2000a: 68). Alternative classification as *Foetorepus grinnelli* by NAKABO (1982b: 79).

Synchiropus hawaiiensis Fricke, 2000
Hawaiian bigeye dragonet

Synchiropus hawaiiensis Fricke, 2000a: 71–75, fig. 34 (20°38'18"N 156°40'36"W – 20°41'06"N 156°41'18"W, Pailolo Channel, between Maui and Moloka'i Islands).

Types. *Synchiropus hawaiiensis* Fricke, 2000: USNM 314624 (holotype); BPBM 9840 (1 paratype); BPBM 24219 (9 paratypes); BPBM 24244 (16 paratypes); BPBM 24358 (14 paratypes); SMNS 21816 (10 paratypes); SMNS 21817 (4 paratypes); SMNS 21929 (4 paratypes); USNM 314596 (2 paratypes); USNM 314598 (1 paratype); USNM 314609 (2 paratypes); USNM 314610 (2 paratypes); USNM 314611 (3 paratypes); USNM 314612 (4 paratypes); USNM 314613 (4 paratypes); USNM 314616 (2 paratypes); USNM 315443 (5 paratypes); USNM 315445 (4 paratypes).

Distribution. Hawaiian Islands (Maui, Moloka'i).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of Fricke (2000a: 71–75).

Synchiropus ijimae Jordan & Thompson, 1914
Ijima's sailfin dragonet

Synchiropus ijimae Jordan & Thompson, 1914: 295–296, pl. 36, fig. 1 (Misaki/Japan, type locality).

Types. *Synchiropus ijimae* Jordan & Thompson, 1914: FMNH 57078 (holotype). – **Type catalogue**: Ibarra & Stewart (1987: 82).

Distribution. Southern Japan. The species has been collected at depths of 10–20 m.

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of Fricke (1981c: 88–89; 1983b: 599–603, as *S. ijimai*); Fricke & Wu (1992: 18, as *S. ijimai*). Alternative classification as *Neosynchiropus ijimai* by Nakabo (1982b: 79; 1983a: 216–218; 1993: 989).

Synchiropus kamoharai (Nakabo, 1983)
Kamohara's dragonet

Foetorepus kamoharai Nakabo, 1983: 210–211, fig. 5 (Mimase, Kochi Prefecture, Japan, type locality).

Types. *Foetorepus kamoharai* Nakabo, 1983: BSKU 7452 (holotype); BSKU 50007 (1 paratype).

Distribution. Japan (Kochi).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of Fricke (2000a: 68). Alternative classification as *Foetorepus kamoharai* by Nakabo (1983: 210–211; 1993: 987).

Synchiropus kanmuensis (Nakabo, Yamamoto & Chen, 1983)
Kanmu dragonet

Foetorepus kanmuensis Nakabo, Yamamoto & Chen, 1983: 351–353, fig. 3 (Kanmu Seamount, Emperor Seamounts, 32°00'N 172°50'E, 355–375 m depth, type locality).

Types. *Foetorepus kanmuensis* Nakabo, Yamamoto & Chen, 1983: FAKU 50671 (holotype); FAKU 50672 (1 paratype); NSMT-P 21033 (1 paratype).

Distribution. Kanmu Seamount, north central Pacific.

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of Fricke (2000a: 68).

Synchiropus kinmeiensis (Nakabo, Yamamoto & Chen, 1983)
Kinmei dragonet

Foetorepus kinmeiensis Nakabo, Yamamoto & Chen, 1983: 349–351, figs 1–2 (Kanmu and Kinmei Seamounts, Emperor Seamounts, 350 m depth, type locality).

Types. *Foetorepus kinmeiensis* Nakabo, Yamamoto & Chen, 1983: HUMZ 68699 (holotype); FAKU 50670 (1 paratype).

Distribution. Kanmu, Kinmei and Hancock Seamounts, north central Pacific.

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 68). Alternative classification as *Foetorepus kinmeiensis* by NAKABO, YAMAMOTO & CHEN (1983: 349–351).

Synchiropus kiyoae Fricke & Zaiser, 1983
Kiyo's dragonet

Synchiropus (Synchiropus) kiyoae Fricke & Zaiser, 1983: 122–127, figs 1–2 (Toga Bay, Miyake-Jima, Izu Islands, Japan, 34°06'N 139°28'E, 5–13.5 m depth, type locality).

Types. *Synchiropus (Synchiropus) kiyoae* Fricke & Zaiser, 1983: USNM 257078 (holotype); AMS I.23508 (2 paratypes); BMNH 1983.3.3.1 (1 paratype); BMNH 1983.3.3.2 (1 paratype); MNHN 1983–0003 (2 paratypes); NSMT-P 21714 (1 paratype); RUSI 17926 (1 paratype); RUSI 17927 (1 paratype); TMBS 820808 (1 paratype); USNM 232249 (1 paratype); ZISP 46504 (1 paratype); ZMH 6453 (1 paratype). – **Type catalogues**: FRICKE, BAUCHOT & DESOUTTER (1984: 107, MNHN); MOYER & MATSUURA (1991: 82, TMBS); WILKENS & DOHSE (1993: 419).

Distribution. Japan; Bonin/Ogasawara Islands; Philippines (Batanes); Palau/Belau. **New record** from Bonin/Ogasawara Islands based on BPBM 35156 and BPBM 35157. **New record** from Palau/Belau based on CAS 95963.

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1983b: 603–608; 2000a: 48). Alternative classification as *Minysynchiropus kiyoae* by NABAKO (1993: 991).

Synchiropus kuiteri Fricke, 1992
Kuiter's dragonet

Synchiropus kuiteri Fricke, 1992b: 82–83, figs 1–2 (Bay of Maumere, 10 km east of Maumere, Flores Island, Nusa Tenggara, Indonesia, 8°38'00"S 122°18'38"E, sand bottom, 4 m depth, type locality).

Types. *Synchiropus kuiteri* Fricke, 1992: SMNS 12825 (holotype). – **Type catalogue**: FRICKE (1995: 8, SMNS).

Distribution. Indonesia (Flores).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1992b: 82–83).

Synchiropus laddi Schultz in Schultz et alii, 1960
Ladd's dragonet

Synchiropus laddi Schultz in Schultz et alii, 1960: 406–409, fig. 131 (Bikini Atoll/Marshall Islands, type locality; Rongelap Atoll, Rongerik Atoll, Eniwetak Atoll/Marshall Islands).

Types. *Synchiropus laddi* Schultz in Schultz et alii, 1960: USNM 141127 (holotype); USNM 141128 (2 paratypes); USNM 141129 (1 paratype); USNM 141130 (2 paratypes); USNM 141131 (1 paratype); USNM 141132 (8 paratypes). – **Type catalogue**: FRICKE (1982b: 76).

Distribution. Philippines (Palawan; Negros); Palau/Belau; Marshall Islands; Rotuma; Tonga (E'ua); Tuamotu Archipelago. **New record** from Negros/Philippines based on ROM uncat. (1).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1981c: 124–126; 1983b: 608–611; 2000a: 48; 2000b: 634). Alternative classification as *Minysynchiropus laddi* by NAKABO (1982b: 80, part).

Synchiropus lateralis (Richardson, 1844)

Chinese ornate dragonet

Callionymus lateralis Richardson, 1844a: 65–66, pl. 37, figs 5–6 (Pacific Ocean/is probably Hong Kong, People's Republic of China; type locality).

Synchiropus ornatus Fowler, 1931: 308–309, fig. 12 (p. 307) (Saukiwan, Hong Kong/People's Republic of China, type locality).

Types. *Callionymus lateralis* Richardson, 1845: BMNH 1844.9.11.35 (holotype). – *Synchiropus ornatus* Fowler, 1931: ANSP 53456 (holotype); ANSP 53457 (1 paratype). – **Type catalogues**: BOEHLKE (1984: 32, ANSP); FRICKE (1982b: 76).

Distribution. Taiwan; People's Republic of China (South China Sea); Thailand (Gulf of Thailand); Singapore.

Remarks. Subgenus *Synchiropus (Synchiropus)*. Taxonomic decision of FRICKE (1983b: 611–615; 2000b: 634); FRICKE & WU (1986: 12; 1992: 18–19).

Synchiropus lineolatus (Valenciennes in Cuvier & Valenciennes, 1837)

Indian ornate dragonet

Callionymus lineolatus Valenciennes in Cuvier & Valenciennes, 1837: 307–309 (Pondichéry/India, type locality; Bourbon/Réunion, erroneous, should be India).

Types. *Callionymus lineolatus* Valenciennes in Cuvier & Valenciennes, 1837: MNHN A.1814 (1 syntype, India); MNHN A.1815 (1 syntype, Bourbon/is India). – **Type catalogues**: FRICKE (1982b:, 76);FRICKE, BAUCHOT & DESOUTTER (1984: 106, MNHN).

Distribution. India (Bay of Bengal); Singapore; Thailand (Gulf of Thailand); Indonesia (Java). The species has been collected at depths of 15–27 m.

Remarks. Subgenus *Synchiropus (Synchiropus)*. Taxonomic decision of FRICKE (1983b: 615–619; 1984b: 4; 1988: 374–377; 2000b: 634). The type locality "Bora Bora/Society Islands" stated by ESCHMEYER (1998: 914) is erroneous.

Synchiropus marmoratus (Peters, 1855)

Marbled dragonet

Marmer-drakie (Afrikaans, South Africa)

Callionymus marmoratus Peters, 1855a: 446 (Mossambique/Mozambique, type locality).

Callionymus marmoratus Peters, 1855b: 255–257 (Mossambique/Mozambique, type locality).

Callionymus elegans Bianconi, 1858: unpag. (Mozambique, type locality; primary homonym of *Callionymus elegans* LeSueur, 1814).

Callionymus perelegans Bianconi, 1859: 263–265, pl. 9 (Mozambique, type locality).

Callionymus caeruleomaculatus Jatzow & Lenz, 1898: 510–511, pl. 35, fig. 6 (Zanzibar/Tanzania, type locality).

Neosynchiropus bacescui Nalbant, 1979: 349–352, figs 1–5 (Makutumbe Reefs near Dar-es-Salaam/Tanzania, type locality).

Types. *Callionymus marmoratus* Peters, 1855: BMNH 1860.3.10.5 (1 syntype); ZMB 2167 (4 syntypes). – *Callionymus elegans* Bianconi, 1858: No type material available. – *Callionymus perelegans* Bian-coni, 1859: No type material available. – *Callionymus caeruleomaculatus* Jatzow & Lenz, 1898: SMF 12149 (holotype). – *Neosynchiropus bacescui* Nalbant, 1979:

MINB 363 (holotype). – **Type catalogues**: FRICKE (1982b: 73, 76); FRICKE & PAEPKE (1992: 96, ZMB).

Distribution. Tanzania; Mozambique. This species has been collected in shallow water among seagrass.

Remarks. Subgenus *Synchiropus (Synchiropus)*. Taxonomic decision of FRICKE (1981c: 73–75; 1983b: 620–624; 1984b: 4; 1986b: 773; 1988: 377–380). Alternative classification as *Neosynchiropus marmoratus* by NAKABO (1982b: 79).

Synchiropus masudai (Nakabo, 1987)
Masuda's dragonet
Ruson-beni-teguri (Japan)

Foetorepus masudai Nakabo, 1987: 335–340, figs 1, 2, 3A (Mimase Market, Kochi Prefecture, Japan, type locality).

Types. *Foetorepus masudai* Nakabo, 1987: FAKU 52494 (holotype); BSKU 30011–30013 (3 paratypes); BSKU 50005 (1 paratype); FAKU K.1135 (1 paratype); FAKU K.1159 (1 paratype); FAKU 25516 (1 paratype); FAKU 25519 (3 paratypes); FAKU 102029 (1 paratype); FAKU 104233 (1 paratype); NSMT-P 21030 (1 paratype).

Distribution Japan (Kochi); Taiwan.

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 68). Alternative classification as *Foetorepus masudai* by NAKABO (1987: 335–340); NABAKO (1993: 987).

Synchiropus minutulus Fricke, 1981
Minute flagfin dragonet

Synchiropus (Synchiropus) minutulus Fricke, 1981c: 119–123, fig. 38 (Maroid and Mafilifleuri Island, Maldives, type locality; Salomons Atoll/Chagos Archipelago).

Types. *Synchiropus (Synchiropus) minutulus* Fricke, 1981: FMNH 78793 (holotype); ROM 36863 (1 paratype). – **Type catalogues**: FRICKE (1982b: 76); IBARRA & STEWART (1987: 82).

Distribution. Maldives; Chagos Archipelago.

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1981c: 119–123; 1983b: 624–627; 1988: 380–382).

Synchiropus monacanthus Smith, 1935
South African bigeye dragonet
Diepwater drakie (Afrikaans, South Africa)

Synchiropus monacanthus Smith, 1935: 187–189 (Port Alfred, South Africa, type locality).
Callionymus bicornis Norman, 1939: 74, fig. 26 (NE of Zanzibar, 5°34'24"N 39°14'06"E – 5°37'00"N 39°14'36"E, 238–293 m depth, green mud, type locality).

Types. *Synchiropus monacanthus* Smith, 1935: RUSI 135 (holotype). – *Callionymus bicornis* Norman, 1939: BMNH 1939.5.24.1426 (holotype). – **Type catalogue**: FRICKE (1982b: 76).

Distribution. Sokotra; Somalia; Kenya; Tanzania; South Africa; Madagascar.

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (1983b: 627–630; 1984b: 4; 1986b: 773–774; 1988: 383–385; 2000a: 68). Alternative classification as *Foetorepus monacanthus* and *Foetorepus bicornis* by NAKABO (1982b: 79).

Synchiropus morrisoni Schultz in Schultz et alii, 1960

Morrison's dragonet

Sesoko-teguri (Japan) CAAB Code (Australia): 37 427031

Synchiropus morrisoni Schultz in Schultz et alii, 1960: 409–410, fig. 132 (Arji Island, Bikini Atoll/Marshall Islands, 20–40 feet depth, type locality).

Types. *Synchiropus morrisoni* Schultz in Schultz et alii, 1960: USNM 141126 (holotype). – **Type catalogue**: Fricke (1982b: 77).

Distribution. Japan (Izu Islands); Ryukyu Islands; Indonesia (Sulawesi); Philippines; Palau/Belau; Federated States of Micronesia (Ulithi; Ant); Commonwealth of the Northern Marianas; Marshall Islands (Bikini; Kwajalein); Australia (Western Australia; Queensland); East Coral Sea (Chesterfield Islands); Fiji (Viti Levu; Malolo; Lau Group; Ono Ilau); American Samoa (Tutuila). **New record** from Philippines based on ROM 53497 (1, Siquijor, Tonga Point, Cebu Strait, 9°12'10"N 123°27'10"E, 3–8 m depth); ROM 53500 (1, Visayas, Negros Oriental Province, Sumion Island, W side, Cebu Strait, 9°26'07"N 123°23'07"E, 9.1–22.9 m depth); ROM 53501 (3, Visayas, Sumilon Island, Cebu Strait, 9°26'07"N 123°23'04"E, 3.7–7.6 m depth).

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of Fricke (1981c: 98–102; 1983b: 630–635; 1988: 386–388; 2000a: 4, 6, 29). Alternative classification as *Neosynchiropus morrisoni* by Nakabo (1982b: 79; 1983a: 215–216; 1993: 989).

Synchiropus moyeri Zaiser & Fricke, 1985

Moyer's dragonet

Miyake-teguri (Japan)

Synchiropus (Synchiropus) moyeri Zaiser & Fricke, 1985: 389–396, figs 1–2 (Igaya Bay, Miyake-jima, Izu Islands, Japan, 34°06'N 139°28'E, 12 m depth, at base of cliff on substrate of boulders, rubble, and sand, type locality).

Types. *Synchiropus (Synchiropus) moyeri* Zaiser & Fricke, 1985: USNM 267773 (holotype); AMS I.24794–001 (1 paratype); AMS I.24795–001 (1 paratype); BMNH 1984.11.6.4 (1 paratype); BMNH 1984.11.6.5 (1 paratype); CAS 55654 (1 paratype); MNHN 1984–0704 (1 paratype); MNHN 1984–0705 (1 paratype); NSMT-P 21213 (1 paratype); NSMT-P 23214 (1 paratype); NSMT-P 29833 (1 paratype); NTM S.11243–001 (1 paratype); RUSI 21638 (1 paratype); RUSI 21639 (1 paratype); USNM 267771 (1 paratype); USNM 267772 (1 paratype); WAM P.28366–001 (1 paratype); ZISP 47203 (1 paratype); ZMB 31446 (1 paratype); ZMB 31447 (1 paratype); ZMH 6603 (1 paratype); ZUMT 54586 (1 paratype). – **Type catalogues**: Fricke & Paepke (1992: 97, ZMB); Hutchins & Smith (1991: 38, WAM); Moyer & Matsuura (1991: 82, TMBS); Wilkens & Dohse (1993: 419, ZMH).

Distribution. Japan; Ryukyu Islands; Belau/Palau; Australia (Western Australia; Queensland).

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of Zaiser & Fricke (1985: 389–396). Alternative classification as *Neosynchiropus moyeri* by Nabako (1993: 990).

Synchiropus novaecaledoniae Fricke, 1993

West Jumeau bigeye dragonet

Synchiropus novaecaledoniae Fricke, 1993b: 372–374, fig. 3 (West Jumeau Seamount, Norfolk Ridge, New Caledonia, 23°40.1'S 167°59.7'E, 246 m depth, type locality).

Types. *Synchiropus novaecaledoniae* Fricke, 1993: MNHN 1993–0140 (holotype);

MNHN 1993–0138 (1 paratype); MNHN 1993–0139 (1 paratype); SMNS 12539 (1 paratype); SMNS 12540 (2 paratypes). – **Type catalogue**: FRICKE (1995: 8, SMNS).

Distribution. New Caledonia (Norfolk Ridge: West Jumeau Seamount; unnamed seamount at 23°21.2'S 168°04.9'E).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 4, 29–31).

Synchiropus occidentalis Fricke, 1983

Australian LSD-fish

CAAB Code (Australia): 37 427033

Synchiropus (Synchiropus) picturatus occidentalis Fricke, 1983b: 653–657, fig. 202 (Western Australia, southeast of Elphik's Knob, northeast end of Rosemary Island, Dampier Archipelago, 1 m depth, type locality).

Types. *Synchiropus (Synchiropus) picturatus occidentalis* Fricke, 1983: WAM P.22027 (holotype); WAM P.22028-P.22029 (2 paratypes). – **Type catalogue**: HUTCHINS & SMITH (1991: 38, WAM).

Distribution. Australia (Western Australia).

Remarks. Subgenus *Synchiropus (Pterosynchiropus)*. Taxonomic decision of FRICKE (1983b: 653–657; 2000a: 6).

Synchiropus ocellatus (Pallas, 1770)

Ocellated dragonet

Kowan-teguri (Japan); Mano'o-lele, Mano'o-tolo (Samoa)

CAAB Code (Australia): 37 427032

Callionymus ocellatus Pallas, 1770: 25–28, pl. 4, figs. 1–3 (Amboina/Ambon Island, Moluccas/Maluku, Indonesia; neotype: SMNS 21263, as designated by FRICKE, 2000a: 32, from Lapu Lapu City, Cebu Island, Philippines, type locality).

Callionymus punctulatus Lacepède, 1800: 328, 340–342 (Amboina/Ambon, Maluku, Indonesia, type locality; unnecessary replacement name for *Callionymus ocellatus* Pallas, 1770).

Callionymus microps Günther, 1877: 192, pl. 113 C (Tonga, type locality).

Synchiropus lili Jordan & Seale, 1906a: 415–416, pl. 53, fig. 2 (Apia, Upolu Island, Western Samoa, type locality).

Synchiropus shoe Okada & Ikeda, 1937: 90–92, figs 4–5 (Kowan, Okinawa Honto/Ryukyu Islands, Japan, type locality).

Synchiropus rhodonotus Fowler, 1946: 196–197, fig. 61 (Aguni Shima, Riu Kiu Islands/Ryukyu Islands, Japan, type locality).

Types. *Callionymus ocellatus* Pallas, 1770: SMNS 21263 (neotype, as designated by FRICKE, 2000a: 32). – *Callionymus punctulatus* Lacepède, 1800: SMNS 21263 (which is also the neotype of *Callionymus ocellatus* Pallas, 1770). – *Callionymus microps* Günther, 1877: BMNH 1871.9.13.209 (holotype). – *Synchiropus lili* Jordan & Seale, 1906: USNM 51762 (holotype). – *Synchiropus shoe* Okada & Ikeda, 1937: (holotype and 2 paratypes out of OKADA collection lost according to ESCHMEYER, 1998: 1554); YCM-P 31084 (1 paratype). – *Synchiropus rhodonotus* Fowler, 1946: ANSP 72071 (holotype); ANSP 72072 (1 paratype); ANSP 72074 (1 paratype); ANSP 72075 (1 paratype). – **Type catalogues**: FRICKE (1982b: 77); BOEHLKE (1984: 32–33, ANSP).

Distribution. Japan (Izu Islands); Ryukyu Islands; Taiwan; Vietnam; Indonesia (Nusa Tenggara; Maluku); Philippines; Palau/Belau; Federated States of Micronesia (Yap; Ponape/Pohnpei); Marshall Islands; Papua New Guinea (Lae; Ninigo Islands; New Britain); Australia (Western Australia; Queensland; New South Wales); New Caledonia (Grande Terre); Loyalty Islands (Lifou); Solomon Islands (Santa Cruz Islands); Vanuatu (Shepherd Islands; Erromango); Fiji; Tonga; Samoa; Marquesas Is-

lands; Pitcairn Group (Pitcairn). This species is found from very shallow water including tide pools to depths of at least 30 m.

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of FRICKE (1981c: 90–97; 1983b: 635–642; 1993b: 374; 2000a: 4, 31–33; 2000b: 634); FRICKE & WU (1986: 12; 1992: 19). Alternative classification as *Neosynchiropus ocellatus* by NAKABO (1982b: 79; 1983a: 213–215; 1991a: 2–5; 1993: 990).

Synchiropus orstom Fricke, 2000
ORSTOM dragonet

Synchiropus orstom Fricke, 2000a: 33–38, figs 16, 18 (East Jumeau Seamount, Norfolk Ridge, New Caledonia, 402 m depth, type locality; Aztèque Seamount, Norfolk Ridge, New Caledonia).

Types. *Synchiropus orstom* Fricke, 2000: MNHN 1999–1254 (holotype); SMNS 11612 (1 paratype); SMNS 21276 (1 paratype).

Distribution. New Caledonia (Norfolk Ridge: East Jumeau Seamount; Aztèque Seamount).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 4, 33–38).

Synchiropus papilio (Günther, 1864)
Painted stinkfish
CAAB Code (Australia): 37 427014

Callionymus papilio Günther, 1864: 197–198 (Melbourne/Victoria, Australia, type locality).
Callionymus ocellifer Castelnau, 1873: 49 (Cape Schanck and Hobson's Bay/Victoria, Australia, type localities).
Callionymus lateralis Macleay, 1881: 628–629 (Port Jackson, New South Wales/Australia, type locality; primary homonym of *Callionymus lateralis* Richardson, 1845).
Callionymus macleayi Ogilby, 1886: 37 (Port Jackson, New South Wales/Australia; replacement name for *Callionymus lateralis* Macleay, 1881–1882).

Types. *Callionymus papilio* Günther, 1864: BMNH 1864.7.22.70 (holotype). – *Callionymus ocellifer* Castelnau, 1873: MNHN A.4554 (2 syntypes); MNHN A.4555 (1 syntype). – *Callionymus lateralis* Macleay, 1881–1882: AMS I.16398–001 (holotype). – *Callionymus macleayi* Ogilby, 1886: AMS I.16398–001 (holotype). – **Type catalogues**: FRICKE (1982b: 77); FRICKE, BAUCHOT & DESOUTTER (1984: 106, MNHN); STANBURY (1969: 209).

Distribution. Australia (Western Australia; South Australia; Victoria; Tasmania; New South Wales; Queensland).

Remarks. Subgenus *Synchiropus (Eocallionymus)*. Taxonomic decision of FRICKE (1981c: 111–114; 1983b: 642–646; 1988: 389–391; 2000a: 6). Alternative classification as *Eocallionymus papilio* by NAKABO (1982b: 79).

Synchiropus paxtoni Fricke, 2000
Paxton's dragonet
CAAB Code (Australia): 37 427044

Synchiropus paxtoni Fricke, 2000a: 75–78, fig. 35 (190 km NW of Port Hedland, Western Australia, 19°01'S 117°21'E, 200–202 m depth; Northern Territory/Australia).

Types. *Synchiropus paxtoni* Fricke, 2000: AMS I.22828–011 (holotype); AMS I.22828–000 (1 paratype); CSIRO H.3193–01 (1 paratype).

Distribution. Australia (Western Australia; Northern Territory).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 6, 75–78).

Synchiropus phaeton (Günther, 1861)
Phaeton dragonet
Lagarto rojo (Spain)

Callionymus phaeton Günther, 1861: 147 (Rome, type locality; on *Callionymus festivus* (non Pallas, 1811) Bonaparte, 1835: 4 unnumbered pp., 2 figs).

Types. *Callionymus phaeton* Günther, 1861: ANSP 10945–10956 (12 syntypes); NMW 58817 (1 syntype).

Distribution. Azores; Great Meteor Bank; Gettysburg Bank; Josephine Bank; Portugal; Mediterranean Sea (Spain; France; Italy; Malta; Tunisia; Greece; Cyprus; Lebanon; Israel); Morocco; Mauritania; Senegal; Gambia; Equatorial Guinea; Gabon. This species is found on mud bottoms at depths of 99–650 m.

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of FRICKE (1981c: 39–44; 1985a: 247; 1986a: 162–163; 1986c: 1093; 1987: 1006); DAVIS & FRICKE (1990: 922). Alternative classification as *Foetorepus phaeton* by NAKABO (1982b: 79).

Synchiropus phasis (Günther, 1880)
South Australian bigeye dragonet
CAAB Code (Australia): 37 427002

Callionymus phasis Günther, 1880: 23, pl. 15 C (Twofold Bay, South Australia, 37°06'S 149°55'E, 120 fms (220 m) depth, type locality).

Callionymus apricus McCulloch, 1926: 209–211, pl. 54, fig. 2 (Eucla, Great Australian Bight/Australia, 350–450 fms (640–823 m) depth, type locality).

Types. *Callionymus phasis* Günther, 1880: BMNH 1879.5.14.564 (holotype). – *Callionymus apricus* McCulloch, 1926: AMS E.3563 (holotype). – **Type catalogue**: FRICKE (1982b: 75).

Distribution. St. Paul Island/S Indian Ocean; Australia (Western Australia; South Australia; Victoria; Tasmania; New South Wales); New Zealand (North Island; Chatham Rise). Record from St. Paul Island based on MNHN 1989–0304 (1).

Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of FRICKE (1981c: 27–32; 1983b: 571–575; 2000a: 6).

Synchiropus picturatus (Peters, 1877)
LSD-fish

Callionymus picturatus Peters, 1877: 840–841 (Salawaty/Irian Jaya, Indonesia, 1°07'N 130°54'E, type locality).

Callionymus zaspilus Herre, 1933a: 24–25 (Sitankai, Sibutu Island, Sulu Archipelago/Philippines, type locality).

Types. *Callionymus picturatus* Peters, 1877: ZMB 9770 (holotype). – *Callionymus zaspilus* Herre, 1933: SU 25515 (holotype). – **Type catalogues**: BOEHLKE (1953: 104, SU); FRICKE (1982b: 77); FRICKE & PAEPKE (1992: 97, ZMB).

Distribution. Taiwan; Philippines; Indonesia (Nusa Tenggara; Irian Jaya).

Remarks. Subgenus *Synchiropus (Pterosynchiropus)*. Taxonomic decision of FRICKE (1981c: 134–138; 1983b: 646–653; 1988: 396–399; 2000b: 634). Alternative classification as *Pterosynchiropus picturatus* by NAKABO (1982b: 80).

Synchiropus postulus Smith, 1963
South African dwarf dragonet
Dwerg-drakie (Afrikaans, South Africa)

Synchiropus postulus Smith, 1963: 560, fig. 7, pl. 86 E (Ibo/Mozambique, type locality; Pinda/Mozambique; Mafia/Tanzania; Aldabra).

Types. *Synchiropus postulus* Smith, 1963: RUSI 157 (holotype); RUSI 122 (1 paratype). – **Type catalogue**: FRICKE (1982b: 77).

Distribution. Oman; Tanzania; Mozambique; South Africa (Zululand); Aldabra; Cargados Carajos/St Brandon's Shoals. **New record** from Oman based on ROM 71993 (3, NW of Kalhat Spit, 22°43'N 59°22'E, 8 m depth).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1981c: 116–118; 1983b: 658–660; 1984b: 4; 1986b: 774; 1988: 401–403).

Synchiropus rameus (McCulloch, 1926)
Australian sailfin dragonet
CAAB Code (Australia): 37 427009

Callionymus, Calliurichthys, rameus McCulloch, 1926: 201–203, pl. 53 (Cape Capricorn, Queensland, Australia, 13 fms depth, type locality).

Types. *Callionymus, Calliurichthys, rameus* McCulloch, 1926: AMS E.6504 (holotype); AMS E.1469 (1 paratype); AMS E.6506 (2 paratypes); AMS IA.727 (1 paratype); AMS IA.728-IA.729 (2 paratypes); AMS IA.1735 (1 paratype); QM I.4012 (1 paratype). – **Type catalogue**: FRICKE (1982b: 78).

Distribution. Australia (Western Australia; Northern Territory; Queensland; northern New South Wales); East Coral Sea (Chesterfield Islands); New Caledonia (Grande Terre Group).

Remarks. Subgenus *Synchiropus (Orbonymus)*. Taxonomic decision of FRICKE (1983b: 684–687; 1988: 411–413; 1993b: 374–375; 2000a: 4, 38–39; 2001a: 3571). Alternative classification as *Orbonymus rameus* by NAKABO (1982b: 80).

Though ESCHMEYER (1998: 1423) stated that the holotype (AMS E.6504) could not be found, the specimen was examined in the AMS collection and the specific identity verified by the author of the present paper in July 1999.

Synchiropus randalli Clark & Fricke, 1985
Randall's flagfin dragonet

Synchiropus randalli Clark & Fricke, 1985: 539–543, fig. 1 (Easter Island, west coast off southern end of Hanga Roa, sand near rocks, 27°09.5'S 109°27'W, 40 feet (12 m) depth, type locality).

Types. *Synchiropus randalli* Clark & Fricke, 1985: BPBM 6754 (holotype); BPBM 26409 (1 paratype); USNM 221485 (1 paratype).

Distribution. Easter Island.

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of CLARK & FRICKE (1985: 539–543); FRICKE (1992b: 83).

Synchiropus richeri Fricke, 2000
Richer's dragonet

Synchiropus richeri Fricke, 2000a: 39–41, fig. 19 (30 km E Thio, Grande Terre, New Caledonia, 21°43'03"S 166°38'34.2"E, 565 m depth).

Types. *Synchiropus richeri* Fricke, 2000: MNHN 1999–1253 (holotype); SMNS 21281 (3 paratypes).

Distribution. New Caledonia (Grande Terre).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 4, 39–41).

Synchiropus rosulentus Randall, 1998
Hawaiian flagfin dragonet

Synchiropus rosulentus Randall, 1998: 200–204, pl. 1 G-H (Hawaiian Islands, O'ahu, off Sampan Channel to Kane'ohe Bay, spur and groove habitat, 12 m depth, type locality; Maui/Hawaiian Islands; Midway Atoll; Johnston Atoll).

Types. *Synchiropus rosulentus* Randall, 1998: BPBM 37260 (holotype); AMS I.38795–001 (2 paratypes); BPBM 34807 (1 paratype); BPBM 36806 (1 paratype); BPBM 37123 (1 paratype); BPBM 37613 (4 paratypes); BPBM 37855 (1 paratype); BPBM 38397 (1 paratype); BPBM 38398 (1 paratype); BPBM 38399 (1 paratype); NSMT-P 55041 (2 paratypes); SMNS 20269 (2 paratypes); USNM 348991 (2 paratypes).

Distribution. Johnston Atoll; Midway Atoll; Hawaiian Islands (O'ahu; Maui).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of RANDALL (1998: 200–204).

Synchiropus rubrovinctus (Gilbert, 1905)
Tiny Hawaiian dragonet
Akaobi-koteguri (Japan)

Callionymus rubrovinctus Gilbert, 1905: 650–651, fig. 252 (channel between Maui and Lanai Islands/Hawaiian Islands, 28–43 fms (51–79 m) depth, type locality).

Types. *Callionymus rubrovinctus* Gilbert, 1905: USNM 51580 (holotype); SU 8567 (2 paratypes). – **Type catalogues**: BOEHLKE (1953: 103, SU); FRICKE (1982b: 78).

Distribution. Japan (Izu Peninsula); Hawaiian Islands (Maui; Lanai).

Remarks. Subgenus *Synchiropus* (subgen. 2). Taxonomic decision of FRICKE (1981c: 139–142; 1983b: 660–663); RANDALL (1998: 204–206). Alternative classification as *Neosynchiropus rubrovinctus* by NAKABO (1982b: 79; 1993: 988).

Synchiropus sechellensis Regan, 1908
Seychelles dragonet

Synchiropus sechellensis Regan, 1908: 249, pl. 30, fig. 1 (Seychelles, 37 fms depth; syntypes: specimens).

Synchiropus altivelis Regan, 1908: 249–250, pl. 30, fig. 2 (Seychelles, type locality; secondary homonym of *Synchiropus altivelis* (Temminck & Schlegel, 1845)).

Synchiropus normani Schultz & Woods, 1948: 419 (replacement name for *Synchiropus altivelis* Regan, 1908).

Types. *Synchiropus sechellensis* Regan, 1908: BMNH 1908.3.230.265–266 (2 syntypes). – *Synchiropus altivelis* Regan, 1908: BMNH 1908.3.23.264 (holotype). – *Synchiropus normani* Schultz & Woods, 1948: BMNH 1908.3.23.264 (holotype). – **Type catalogue**: FRICKE (1982b: 78).

Distribution. Red Sea (Gulf of Suez); Gulf of Aden; Somalia; Seychelles; Maldives; East Coral Sea (Chesterfield Islands; Banc du Sable); New Caledonia (Grande Terre Group).

Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of FRICKE (1981c: 84–87; 1983b: 663–668; 1984b: 4; 1988: 404–406; 2000a: 4, 41–42). Alterna-

tive classification as *Neosynchiropus sechellensis* by NAKABO (1982b: 79), *Neosynchiropus* sp. by NAKABO (1982b: 80), and *Paradiplogrammus normani* by NAKABO (1982b: 80).

Synchiropus signipinnis Fricke, 2000
Chesterfield bigeye dragonet

Synchiropus signipinnis Fricke, 2000a: 43–45, fig. 21 (East Coral Sea, Chesterfield Islands, 19°43'48"S 158°35'15"E, 348 m depth).

Types. *Synchiropus signipinnis* Fricke, 2000: MNHN 1999–1252 (holotype); SMNS 21271 (1 paratype).

Distribution. East Coral Sea (Chesterfield Islands).

Remarks. Subgenus *Synchiropus (Foetorepus)*. Taxonomic decision of FRICKE (2000a: 4, 43–45).

Synchiropus splendidus (Herre, 1927)
Mandarinfish
CAAB Code (Australia): 37 427034

Gallionymus splendidus Herre, 1927: 416–417, pl. 2 (Bungau, Philippines, 2 fms (4 m) depth, type locality).

Synchiropus leopoldi Giltay, 1933: 83, figs 23–24 (between Banda Neira and Goenoeng/Gunung Api, Maluku, Indonesia, type locality).

Types. *Gallionymus splendidus* Herre, 1927: (holotype: was BSMP uncat., destroyed during WW*II*). – *Synchiropus leopoldi* Giltay, 1933: IRSN 30040 (holotype). – **Type catalogues**: FRICKE (1982b: 78); WALSCHAERTS (1987: 44). Distribution. Ryukyu Islands; Taiwan; Indonesia (Flores; Sulawesi); Philippines; Palau/Belau; Federated States of Micronesia (Yap; Kapingamarangi; Ponape/Pohnpei); Papua New Guinea (Madang; Hermit Islands; Ninigo Group); Australia (Western Australia; Queensland); New Caledonia (Grande Terre Group); Solomon Islands (Vona Vona).

Remarks. Subgenus *Synchiropus (Pterosynchiropus)*. Taxonomic decision of FRICKE (1981c: 127–132; 1983b: 668–672; 1993b: 374–375; 2000a: 4, 6, 45–46; 2000b: 634); FRICKE & WU (1992: 19). Alternative classification as *Pterosynchiropus splendidus* by NAKABO (1982b: 80; 1983a: 218–219; 1993: 988).

Though the holotype was destroyed during WW*II*, the species was superbly illustrated in the original description (HERRE, 1927: pl. 2), and its identity is undoubted.

Synchiropus springeri Fricke, 1983
Springer's flagfin dragonet

Synchiropus (Synchiropus) springeri Fricke, 1983b: 673–677, fig. 208 (Fiji, S side of channel at NE end of Malolo Island barrier reef, 17°45'S 177°04'W, 0–20 m depth, type locality).

?Synchiropus claudiae Fricke, 1990: 2 (part: Solomon Islands paratype only).

Types. *Synchiropus (Synchiropus) springeri* Fricke, 1983: USNM 235725 (holotype); USNM 246705 (2 paratypes). – *Synchiropus claudiae* Fricke, 1990: ?BPBM 16113 (1 paratype).

Distribution. New Caledonia (Grande Terre); Loyalty Islands (Ouvéa); Solomon Islands (Savo; Santa Cruz Islands); Vanuatu (Banks Group); Rotuma; Fiji (Malolo).

Remarks. Subgenus *Synchiropus (Minysynchiropus)*. Taxonomic decision of FRICKE (1983b: 673–677; 2000a: 4, 46–48).

Synchiropus stellatus Smith, 1963
Starry dragonet
Sterretje-drakie (Afrikaans, South Africa)
CAAB Code (Australia): 37 427035

Synchiropus stellatus Smith, 1963: 559, pl. 85, figs A-B (Pinda/Mozambique, among weeds, type locality).
Types. *Synchiropus stellatus* Smith, 1963: RUSI 167 (holotype); RUSI 1000–1001 (2 paratypes). – **Type catalogue**: FRICKE (1982b: 78).

Distribution. South Africa (Zululand; Natal); Mozambique; Comores; Réunion; Mauritius; Cargados Carajos/St Brandon's Shoals; Amirantes; Seychelles; Oman; Maldives; Sri Lanka; Indonesia (Java; Bali). **New record** from Amirantes based on ANSP 110964 (2, D'Arros Island, off E end of island, 05°25'S 53°18'E, 23–30 m depth).
Remarks. Subgenus *Synchiropus* (subgen. 1). Taxonomic decision of FRICKE (1981c: 107–110; 1983b: 677–681; 1984b: 4; 1986b: 774; 1988: 407–409; 1999a: 494).

Synchiropus valdiviae (Trunov, 1981)
Valdivia dragonet

Callionymus valdiviae Trunov, 1981: 59–61, fig. 4 (Valdivia Bank, Walvis Ridge area, SE Atlantic Ocean, 26°13'S 06°19'E, 235 m depth).
Type. *Callionymus valdiviae* Trunov, 1981: ZISP 45302 (holotype).

Distribution. Walvis Ridge.
Remarks. Subgenus *Synchiropus (Yerutius)*. Taxonomic decision of FRICKE (1985a: 245–247; 1986a: 161; as subspecies of *Synchiropus agassizii*).

Synchiropus zamboanganus Seale, 1910
Zamboangan dragonet

Synchiropus zamboangana Seale, 1910: 540–541 (Zamboanga, Mindanao, Philippines, type locality).
Types. *Synchiropus zamboangana* Seale, 1910: (holotype and 1 paratype were in BSMP; destroyed in WW*II* according to ESCHMEYER, 1998: 1811).

Distribution. Philippines (Mindanao). Known only from the type locality.
Remarks. Subgenus *Synchiropus (Anaoroides)*. Taxonomic decision of FRICKE (1981c: 150–151; 1983b: 681–683).

4.1.11. Fossil species of Callionymidae

Callionymus konkensis (Pobedina, 1954)

Trigla konkensis Pobedina, 1954: 29, pl. 2, figs 1–2 (Azerbajdzhan; Miocene/Tertiary).
Types. *Trigla konkensis* Pobedina, 1954: No type material known.

Distribution. Azerbajdzhan. Tertiary (Miocene).
Remarks. Taxonomic decision of WEILER (1968: 75).

Callionymus lerenardi Nolf & Lapierre, 1979

Callionymus lerenardi Nolf & Lapierre, 1979: 107–108, pl. 6, figs 11–12 (Villiers, Paris Basin, France, type locality; otolith; Middle Eocene).

Types. *Callionymus lerenardi* Nolf & Lapierre, 1979: MNHN 1978–3-94 (holotype); MNHN 1978–3-93 (14 paratypes).

Distribution. France (Paris Basin). Tertiary (Middle Eocene).

Remarks. Taxonomic decision of Nolf (1985: 98).

Callionymus macrocephalus Kramberger-Gorjanovic, 1882

Callionymus macrocephalus Kramberger-Gorjanovic, 1882: 134–135, pl. 25, figs 3, 3 A-C (Radoboj/Bosnia, type locality; Upper Tertiary).

Types. *Callionymus macrocephalus* Gorjanovic-Kramberger, 1882: No type material available.

Distribution. Croatia; Bosnia. Tertiary (Sarmatian).

Remarks. Taxonomic decision of Andelkovic (1977: 238–239); Andelkovic (1989: 50–51, 63).

Callionymus primus Weiler, 1943

Callionymus primus Weiler, 1943: 94–95, 99–101, 111, pl. 1, figs 31–36 (Melicesti/Romania, type locality; otolith; Upper Tertiary).

Type. *Callionymus primus* Weiler, 1943: SMF P.2655 a (holotype).

Distribution. Poland; Romania. Tertiary (Tortonian, Upper Miocene).

Remarks. Taxonomic decision of Weiler (1968: 75); Nolf (1985: 98).

Callionymus schuermanni Schwarzhans, 1973

Callionymus schuermanni Schwarzhans, 1973: (Hückelhoven, Kreis Heinsberg, Nordrhein-Westfalen/Germany, type locality; otolith; Lower Oligocene, Tertiary).

Type. *Callionymus schuermanni* Schwarzhans, 1973: RMNH uncat. (holotype).

Distribution. Germany. Tertiary (Lower Oligocene).

Remarks. Taxonomic decision of Schwarzhans (1977: 283–284); Nolf (1985: 98).

4.1.12. Callionymid fish names not referable to species (incertae sedis)

Callionymus jaculus Cuvier, 1829: 248 (locality not stated; no distinguishing features; name not available according to Eschmeyer, 1998: 798).

Callionymus orientalis Bloch & Schneider, 1801: 41, pl. 61 (Tranquebar/India, type locality).

Types. *Callionymus orientalis* Bloch & Schneider, 1801: No type material available. – **Type catalogue**: Fricke & Paepke (1992: 97, not in ZMB); Paepke (2000a, not in ZMB).

Callionymus taeniatus Gill, 1860: 129 (China, type locality).

Types. *Callionymus taeniatus* Gill, 1860: No type material available.

4.2. Family Draconettidae

4.2.1. Genus *Centrodraco* Regan, 1913

Centrodraco Regan, 1913: 145 (type species: *Draconetta acanthopoma* Regan, 1904 by original designation).

Liopsaron McKay, 1971: 45 (type species: *Liopsaron insolitum* McKay, 1971; erroneously placed in family Percophidae).

Centrodraco abstractum Fricke, 2002
Abstract slope dragonet

Centrodraco abstractum Fricke, 2002a: 3–5, fig. 1 (Philippines, San Barnardino Strait, 12°54.49'N 124°23.77'E – 12°57.50'N 124°21.45'E, 382–376 m, type locality).

Types. *Centrodraco abstractum* Fricke, 2002: AMS I.36455–006 (holotype); AMS I.36455–006 (2 paratypes).

Distribution. Philippines (San Bernardino Strait).

Remarks. Taxonomic decision of Fricke (2002a: 3–5).

Centrodraco acanthopoma (Regan, 1904)
North Atlantic slope dragonet

Draconetta acanthopoma Regan, 1904: 130–131 (North Atlantic/is off Jacksonville, Florida, U.S.A., 30°47'30"N 79°49'00"W, 270 fms depth, type locality).

Type. *Draconetta acanthopoma* Regan, 1904: BMNH 1896.2.10.33 (holotype). – **Type catalogue**: Fricke (1982b: 56).

Distribution. Western Atlantic: U.S.A. (Key West/Florida to Georgia at 31°N); eastern Atlantic: Meteor Bank, Josephine Bank, Madeira, Morocco.

Remarks. Taxonomic decision of Fricke (1986d: 1094–1095; 1992a: 170–172).

Centrodraco gegonipus (Parin, 1982)
Sala-y-Gomez slope dragonet

Draconetta gegonipa Parin, 1982: 558, fig. 1 C-D (Sala-y-Gomez Ridge/SE Pacific, 25°07'S 99°39'W, 360–400 m depth, type locality).

Types. *Draconetta gegonipa* Parin, 1982: ZISP 45525 (holotype); IOAN uncat. (2 paratypes).

Distribution. Sala-y-Gomez Ridge.

Remarks. Taxonomic decision of Fricke (1992a: 172–174).

Centrodraco insolitus (McKay, 1971)
Western Australian slope dragonet
CAAB Code (Australia): 37 427025

Liopsaron insolitum McKay, 1971: 45–46, fig. 5 (off northwestern Australia, 17°17'00"S 119°57'00"E, 350 m depth, type locality).

Types. *Liopsaron insolitum* Mckay, 1971: WAM P.19164–001 (holotype); WAM P.19165–001 (1 paratype); WAM P.19166–001 (1 paratype). – **Type catalogues**: Fricke (1982b: 56); Hutchins & Smith (1991: 38, WAM).

Distribution. Maldives; Australia (Western Australia). Maldives record (as published by Adam, Merrett & Anderson, 1998: 13) based on BMNH 1997.9.17.36 (1).

Remarks. Taxonomic decision of Fricke (1992a: 174–175; 2001b: 3573).

Centrodraco nakaboi Fricke, 1992
Nakabo's slope dragonet

Centrodraco nakaboi Fricke, 1992a: 176–178, figs 6–7 (Nazca Ridge, SE Pacific, 25°09'09"S 90°18'07"W, 545–600 m depth; type locality; Kyushu-Palau Ridge).

Types. *Centrodraco nakaboi* Fricke, 1992: ZISP 48693 (holotype); BSKU 29331 (1 paratype); ZISP 48694 (5 paratypes).

Distribution. Kyushu-Palau Ridge; Nazca Ridge.

Remarks. Taxonomic decision of Fricke (1992a: 176–178).

Centrodraco oregonus oregonus (Briggs & Berry, 1959)
Brazilian slope dragonet

Draconetta oregona Briggs & Berry, 1959: 129–132, fig. 7 (northeast of mouth of Rio Pará, Brazil, 2°04'N 47°00'W, 125 fms (229 m) depth, type locality).

Types. *Draconetta oregona* Briggs & Berry, 1959: USNM 159776 (holotype); ANSP 83826 (1 paratype); FMNH 64386–64389 (18 paratypes); MCZ 29989 (1 paratype); SAFI uncat. (5 paratypes); SU 51106 (1 paratype); TU 188831 (3 paratypes); UBC 58–307 (1 paratype); UF 5245 (1 paratype); UF 23300 (3 paratypes); USNM 158875 (28 paratypes). – **Type catalogues**: Bart & Taylor (1993: 66, TU); Boehlke (1984: 32, ANSP); Fricke (1982b: 56); Gilbert (1974: 113, UF); Ibarra & Stewart (1987: 33, FMNH); Suttkus (1970: 128, TU).

Distribution. Atlantic coast of northern Brazil. The species was collected at depths of 229–411 m.

Remarks. Taxonomic decision of Fricke (1992a: 178–180).

Centrodraco oregonus lineatus Fricke, 1992
Lined slope dragonet

Centrodraco oregonus lineatus Fricke, 1992a: 180–182, fig. 10 (seamount 300 km SE of Sokotra Island, NW Indian Ocean, 10°18'07"N 56°07'31"E, 408–415 m depth, type locality).

Types. *Centrodraco oregonus lineatus* Fricke, 1992: ZISP 49940 (holotype); SMNS 12136 (1 paratype); ZMMU 18680 (1 paratype). – **Type catalogue**: Fricke (1995: 12, SMNS).

Distribution. NW Indian Ocean (seamount 300 km SE Sokotra); Saya de Malha Bank. The species has been collected at 264–415 m depth.

Remarks. Taxonomic decision of Fricke (1992a: 180–182).

Centrodraco ornatus (Fourmanoir & Rivaton, 1979)
Ornate slope dragonet

Draconetta ornata Fourmanoir & Rivaton, 1979: 418, fig. 10 (S of Ile des Pins/New Caledonia, 300 m depth, type locality).

Centrodraco otohime Nakabo & Yamamoto, 1980: 325–328, figs 1–3 (Kyushu-Palau Ridge, 26°46.0'N 135°20.0'E – 26°44.0'N 135°24.3'E, 342 m depth, type locality).

Types. *Draconetta ornata* Fourmanoir & Rivaton, 1979: Holotype lost according to P. Fourmanoir (personal communication, 1981). – *Centrodraco otohime* Nakabo & Yamamoto, 1980: HUMZ 75058 (holotype); HUMZ 79194 and 79196–79198 (4 paratypes); HUMZ 80237 (1 paratype); HUMZ 80295 (1 paratype). – **Type catalogue**: Fricke (1982b: 57).

Distribution. Kyushu-Palau Ridge; New Caledonia (Grande Terre Group; Jumeau Seamount). The species has been collected at depths of 300–530 m. **New record** from Jumeau Seamount (E of Norfolk Ridge) based on NMNZ P.29129 (1, 23°47.45'S 168°17.05'E – 23°48.20'S 168°17.08'E, 430–530 m depth); SMNS 21797 (1, 23°41'25"S 168°15'30"E, 390 m depth).

Remarks. Taxonomic decision of Fricke (1992a: 182–184; 2001b: 3573).

Centrodraco pseudoxenicus (Kamohara, 1952)
Japanese slope dragonet

Draconetta pseudoxenica Kamohara, 1952: 88–89, fig. 2 (Mimase/Shikoku, Japan, type locality).
Droconetta margarostigma Cheng & Tian, 1980: 175–178, fig. 1 (off Hainan Island/People's Republic of China, 210 m depth, type locality; *Draconetta margarostigma* in the text).

Types. *Draconetta pseudoxenica* Kamohara, 1952: BSKU 333 (holotype). – *Droconetta margarostigma* Cheng & Tian, 1980: ASIO 59–213 (holotype); ASIO 59–252 (1 paratype). – **Type catalogues**: Fricke (1982b: 56); Kamohara (1961: 8).

Distribution. Japan; People's Republic of China (South China Sea).

Remarks. Taxonomic decision of Fricke (1992a: 184–185; 2000c: 635; 2001b: 3573).

Centrodraco rubellus Fricke, Chave & Suzumoto in Fricke, 1992
Red slope dragonet

Centrodraco rubellus Fricke, Chave & Suzumoto in Fricke, 1992a: 185–187, fig. 11 (Hawaiian Islands, O'ahu, Mamala bay, Pearl Harbor dredge spoil site, 21°14.7'N 158°01.1'W, 363 m depth, type locality; off SE Lombok, Indonesia).

Types. *Centrodraco rubellus* Fricke, Chave & Suzumoto in Fricke, 1992: BPBM 28915 (holotype); SMNS 8525 (1 paratype). – **Type catalogue**: Fricke (1995: 12, SMNS).

Distribution. Indonesia (Lombok); Hawaiian Islands (O'ahu).

Remarks. Taxonomic decision of Fricke, Chave & Suzumoto in Fricke (1992a: 185–187); Fricke (2001b: 3573).

Centrodraco striatus (Parin, 1982)
Striped slope dragonet

Draconetta striata Parin, 1982: 555–556, fig. 1 A (Nazca Ridge/SE Pacific, 21°23.5'S 81°41'E, 330–340 m depth, type locality; 22°08'S 81°20'W, 230 m depth).
Draconetta nana Parin, 1982: 557, fig. 1 B (either Nazca or Sala y Gomez Ridge, SE Pacific, type locality).

Types. *Draconetta striata* Parin, 1982: ZISP 45524 (holotype); IOAN uncat. (2 paratypes); IAN uncat. (2 paratypes); IOAN uncat. (2 paratypes). – *Draconetta nana* Parin, 1982: ZISP 45724 (holotype).

Distribution. Nazca Ridge.

Remarks. Taxonomic decision of Fricke (1992a: 188–189).

4.2.2. Genus *Draconetta* Jordan & Fowler, 1903

Draconetta Jordan & Fowler, 1903: 939 (type species: *Draconetta xenica* Jordan & Fowler, 1903 by monotypy).

Draconetta xenica Jordan & Fowler, 1903
Highfin slope dragonet
Nezumi-gochi (Japan)

Draconetta xenica Jordan & Fowler, 1903: 939–941, fig. 1 (Suruga Bay, Japan, 100 fms (183 m) depth, type locality).
Draconetta hawaiiensis Gilbert, 1905: 652–653, pl. 91 (channel between Moloka'i and Maui, Hawaiian Islands, 122–132 fms (223–241 m) depth, type locality).
Draconetta africana Smith, 1963: 548, fig. 1 (off south Kenya, 70 fms (128 m) depth, type locality).

Types. *Draconetta xenica* Jordan & Fowler, 1903: USNM 50816 (holotype). – *Draconetta hawaiiensis* Gilbert, 1905: USNM 51633 (holotype). – *Draconetta africana* Smith, 1963: RUSI 165 (holotype). – **Type catalogue**: FRICKE (1982b: 57).

Distribution. Kenya; Philippines; People's Republic of China (South China Sea); Kyushu-Palau Ridge; Taiwan; Japan; Norfolk Rise (New Caledonia); Hawaiian Islands. The species has been collected at depths of 128–241 m. **New record** from New Caledonia/Norfolk Rise based on SMNS 21798 (1, 24°47'54"S 168°09'03"E, 260 m depth).

Remarks. Taxonomic decision of FRICKE (1992a: 191–193; 2000c: 635; 2001b: 3573).

5. Species described under the generic name *Callionymus* belonging to different families

Callionymus acanthorhynchus Forster in Bloch & Schneider, 1801: 41 (not available, manuscript name mentioned under account of *Callionymus monopterygius*; type of the genus *Hemerocoetes* Valenciennes in Cuvier & Valenciennes, 1837).

Now classified as *Hemerocoetes monopterygius* (Forster in Bloch & Schneider, 1801), family Percophidae, subfamily Hemerocoetinae.

Callionymus baikalensis Pallas, 1776: 290, 707 (Lake Baikal, Russia, type locality; no type material available).

Now classified as *Comephorus baikalensis* (Pallas, 1776), family Comephoridae.

Callionymus barffi Curtiss, 1944: 3 (lagoon at Pueu, Tahiti/Society Islands, type locality; no type material available).

Now classified as *Platycephalus fuscus* Cuvier, 1829, family Platycephalidae.

Callionymus diacanthus Carmichael, 1819: 501, pl. 26, fig. 12 (Tristan da Cunha, type locality).

Now classified as *Bovichtys diacanthus* (Carmichael, 1819), family Bovichtidae.

Callionymus indicus Linnaeus, 1758: 250 (Asia, type locality; no type material available).

Now classified as *Platycephalus indicus* (Linnaeus, 1758), family Platycephalidae.

Callionymus monopterygius Forster in Bloch & Schneider, 1801: 41 (New Zealand; no type material available).

Now classified as *Hemerocoetes monopterygius* (Forster in Bloch & Schneider, 1801), family Percophidae, subfamily Hemerocoetinae.

6. References

ADAM, M.S., N.R. MERRETT & R.C. ANDERSON (1998): Additions to the fish fauna of the Maldive Islands. Part 1: An annotated checklist of the deep demersal fishes of the Maldives Islands. – J.L.B. Smith Institute of Ichthyology, Ichthyological Bulletin, **67**: 1–19; Grahamstown/South Africa.

ALCOCK, A.W. (1890): On the bathybial fishes collected in the Bay of Bengal during the season 1889–1890. – Annals and Magazine of Natural History (6), **6**: 197–222; London.

ANDELKOVIC, J.S. (1977): Prinove za poznavanje fosilnih riba iz okoline Bosnanske Kostajnice. [New additions to the knowledge of the fossil fish from the environs of Bosnanska Kostajnica]. – Annales Géologiques de la Péninsule Balkanique, **41**: 233–248; Beograd [in Serbian, with English summary].

– (1989): Tertiary fishes of Yugoslavia. A stratigraphic-paleontologic-paleoecological study. – Palaeontologia Jugoslavica, **38**: 1–121; Zagreb.

ARISTOTELES (1619): Historia de animalibus, Julio Cesare Scaligero interprete cum ejus commentariis; Tolosa [originally written in 4th century BC].

BARBOUR, T. (1905): Notes on Bermudian fishes. – Bulletin of the Museum of Comparative Zoology at Harvard College, **46** (7): 107–134; Cambridge, Massachusetts, U.S.A.

BARNARD, K.H. (1927): A monograph of the marine fishes of South Africa; part 2. – Annals of the South African Museum, **21** (2): 419–1065, pls 18–37; Cape Town.

BART, H.L., JR. & M.S. TAYLOR (1993): Type specimens of fishes in the Tulane University Museum of Natural History. – Tulane Studies in Zoology and Botany, **29** (1): 29–72; New Orleans.

BEAUFORT, L.F. DE & W.M. CHAPMAN (1951): Callionymidae. – *In*: WEBER, M. & L.F. DE BEAUFORT: The fishes of the Indo-Australian Archipelago, 9: Percomorphi (concluded) XI + 484 pp.; Leiden (Brill).

BIANCONI, G.G. (1858): Specimina zoologica Mosambicana. – Rendiconto, **1857–1858**: 52–53; Bologna.

– (1859): Specimina zoologica Mosambicana; fasc. 13, (1858), pp. 259–270, Piscium pls. 8–9; Bononiae.

BLEEKER, P. (1851): Over twee nieuwe soorten van *Callionymus* van den Indischen Archipel. – Natuurkundig Tijdschrift voor Nederlandsch-Indie, **1**: 28–32; Batavia-Weltevreden.

– (1852): Bijdrage tot de kennis der ichthyologische fauna van het eiland Banka. – Natuurkundig Tijdschrift voor Nederlandsch-Indie, **3**: 443–460; Batavia-Weltevreden.

– (1854): Faunae ichthyologicae Japonicae species novae. – Natuurkundig Tijdschrift voor Nederlandsch-Indie, **6**: 395–426; Batavia-Weltevreden.

– (1858): Bijdrage tot de kennis der fischfauna van den Goram-Archipel. – Natuurkundig Tijdschrift voor Nederlandsch-Indie, **15**: 197–218; Batavia-Weltevreden.

– (1858–1859): Vijfde bijdrage tot de kennis der ichthyologische fauna van Japan. – Acta Societatis Scientiarum Indo-Neerlandicae, **5**: 1–12; Batavia.

– (1879): Révision des espèces insulindiennes de la famille des Callionymoides. – Verslagen en Mededeelingen van de Koninklijk Akademie van Wetenschapen, (2) **14**: 79–107; Amsterdam.

BLOCH, M.E. & J.G. SCHNEIDER (1801): M.E. Blochii, doctoris medicinae Berolinensis, et Societatibus Literariis multis adscripti, systema ichthyologiae iconibus cx illustratum. Post obitum auctoris opus inchoatum absolvit, correxit, interpolavit Jo. GOTTLOB SCHNEIDER, Saxo. – LX + 584 pp., pls 1–110; Berolini (Sander).

BOEHLKE, E.B. (1984): Catalog of type specimens in the ichthyological collection of The Academy of Natural Sciences of Philadelphia. – Academy of Natural Sciences of Philadelphia (Special Publication), **14**: I-VIII + 1–216; Philadelphia.

BOEHLKE, J. (1953): A catalogue of the type specimens of recent fishes in the Natural History Museum of Stanford University. – Stanford Ichthyological Bulletin, **5**: 1–168; Stanford, California.

BOESEMAN, M. (1947): Revision of the fishes collected by BURGER and VON SIEBOLD in Japan. – Zoologische Mededeelingen, **28**: I-VIII + 1–242, pls 1–5; Leiden.

BONAPARTE, C.L.J.L. (PRINCE DE CANINO) (1835): *Callionymus festivus*. (4 unnumbered pp., 2 figs.). - *In*: BONAPARTE, C.L.J.L. (PRINCE DE CANINO) (1832–1841): Iconografia della Fauna Italica per le quattro classi degli Animali Vertebrati. Fasc. 1–30 [unpaginated]; Roma (Tipografia Salviucci) [publication dates see SALVADORI, 1888].

Boulenger, G.A. (1898): Descriptions of two new gobiiform fishes from the Cape of Good Hope. – Cape of Good Hope, Department of Agriculture, Marine Investigations in South Africa, **1, 1902** [but article published in 1900]: 8–9; Cape Town. – Also published as a separate in 1898: Cape of Good Hope, Department of Agriculture, Marine Investigations in South Africa, **21**: 3–4; Cape Town.

Briggs, J.C. & F.H. Berry (1959): The Draconettidae – a review of the family with description of a new species. – Copeia, **1959** (2): 123–133.

Buen, F. de (1926): Catálogo ictiológico del Mediterráneo español y de Marruecos recopilando lo publicado sobre peces de las costas mediterránea y próximas del Atlántico (Mar de España). – Resultados de la campania Real Acuerdo Internacional de Madrid, **2**: 1–221; Madrid.

Carmichael, D. (1817): Description of four new species of fish found on the coast of Tristan da Cunha. – Transactions of the Linnean Society of London, **12**: 500–513, pls 24–27; London.

Castelnau, F. de (1873): Contribution to the ichthyology of Australia, 3–9. – Proceedings of the Acclimatisation Society of Victoria, **2**: 37–158; Melbourne.

Cheng, Q. & M. Tian (1980): A new fish of the family Draconettidae – *Draconetta margarostigma*. – Oceanologia et Limnologia Sinica, **11** (2): 175–178.

Clark, G.T. & R. Fricke (1985): A new species of dragonet, *Synchiropus randalli* from Easter Island (Teleostei: Callionymidae). – Proceedings of the Biological Society of Washington, **98** (3): 539–544; Washington D.C.

Curtiss, A. (1944): Further notes on the zoology of Tahiti. – Pp. I + 1–30 [neither publisher nor locality stated].

Cuvier, G.L.C.F.D. (1829): Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée. Nouvelle édition, **2**. – Pp. 122–406; Paris (Déterville et Crochard). [Publication date March, 1829.]

Davis, W.P. (1966): A review of the dragonets (Pisces, Callionymidae) of the western Atlantic. – Bulletin of Marine Science, **16**: 834–862; Coral Gables, Florida.

Davis, W.P. & R. Fricke (1990): Callionymidae. Pp. 921–924. - *In*: Quéro, J.C. et alii (eds.): CLOFETA III. Check-list of the fishes of the eastern tropical Atlantic. Volume **3**; Paris (UNESCO).

Davis, W.P. & C.R. Robins (1966): The R/V "Pillsbury" Deep-Sea Biological Expedition to the Gulf of Guinea, 1964–1965. 4. *Pogonymus shango*, a new callionymid fish from Quartz sand beaches of Nigeria, with notes on related species. – Studies in Tropical Oceanography, **4**: 106–116; Miami, Florida.

Day, F. (1876): The fishes of India; being a natural history of the fishes known to inhabit the seas and fresh waters of India, Burma, and Ceylon. Part 2. – Pp. 169–368, pls 41–78; London.

Delaroche, F. (1809): Suite du mémoire sur les poissons observés à Iviça. – Annales du Muséum National d'Histoire Naturelle, **13**: 313–361; Paris.

Derijst, E. (1991): Kataloog der ichthyologische publikaties en nieuwe taxa beschreven door: Dr. Max Poll. – Bond van Aquarium-en-Terrariumhouders, B.B.A.T. (Special Publication), **2**: I-VII + 1–87; Bruxelles.

DeVis, C.W. (1883): Descriptions of two new Queensland fishes. – Proceedings of the Linnean Society of New South Wales, **7** (4), (1882): 620–621; Sydney.

Eigenmann, C.H. & R.S. Eigenmann (1888): A list of the American species of Gobiidae and Callionymidae, with notes on the specimens contained in the Museum of Comparative Zoology, at Cambridge, Massachusetts. – Proceedings of the California Academy of Sciences, **1**: 51–78; San Francisco.

Eschmeyer, W.N. (ed.) (1998): Catalog of fishes. – Vol. **1**, pp. 1–958; – vol. **2**, pp. 959–1820; – vol. **3**, pp. 1821–2905; CD ROM version included; San Francisco (California Academy of Sciences).

Fernholm, B. & A. Wheeler (1983): Linnean fish specimens in the Swedish Museum of Natural History, Stockholm. – Zoological Journal of the Linnean Society, **78** (3): 199–286; London.

Fourmanoir, P. & J. Rivaton (1979): Poissons de la pente récifale externe de Nouvelle-Calédonie et des Nouvelles-Hébrides. – Cahiers de l'Indo-Pacifique, **1** (4): 405–443; Paris.

FOWLER, H.W. (1925): Fishes of Guam, Hawaii, Samoa, and Tahiti. – Bulletin of the Bernice P. Bishop Museum, **22**: 1–38; Honolulu.
– (1931): Studies on Hong Kong fishes, (2). – Hong Kong Naturalist, **2** (3): 287–317; Hong Kong.
– (1941a): New fishes of the family Callionymidae, mostly Philippine, obtained by the U.S. Bureau of Fisheries steamer "Albatross". – Proceedings of the United States National Museum, **90** (3106): 1–31; Washington D.C.
– (1941b): Notes on Florida fishes with descriptions of seven new species. – Proceedings of the Academy of Natural Sciences of Philadelphia, **93**: 81–106; Philadelphia.
– (1943): Descriptions and figures of new fishes obtained in Philippine seas and adjacent waters by the U.S. Bureau of Fisheries steamer "Albatross". – Bulletin of the United States National Museum, 100, **14** (2): 53–91; Washington D.C.
– (1946): A collection of fishes obtained in the Riu Kiu Islands by Captain Ernest R. Tinkham, A.U.S. – Proceedings of the Academy of Natural Sciences of Philadelphia, **98**: 123–218; Philadelphia.
FOWLER, H.W. & B.A. BEAN (1927): Notes on the fishes obtained in Sumatra, Java and Tahiti. – Proceedings of the United States National Museum, **71** (2682): 1–15; Washington D.C.
FOWLER, H.W. & H. STEINITZ (1956): Fishes from Cyprus, Iran, Iraq, Israel, and Oman. – Bulletin of the Research Council of Israel (B), **5** (3–4): 260–292; Jerusalem.
FRICKE, R. (1980): Neue Fundorte und noch nicht beschriebene Geschlechtsunterschiede einiger Arten der Gattung *Callionymus* (Pisces, Perciformes, Callionymidae), mit Bemerkungen zur Systematik dieser Gattung und Beschreibung einer neuen Untergattung und einer neuen Art. – Annali di Museo Civico di Storia Naturale Genova, **83**: 57–105; Genova.
– (1981a): On a new species of the family Callionymidae (Pisces, Perciformes, Callionymoidei), *Callionymus stigmatopareius* sp. nov. from Mozambique. – Journal of Natural History, **15** (1): 161–167; London.
– (1981b): *Diplogrammus (Climacogrammus) pygmaeus* sp. nov., a new callionymid fish (Pisces, Perciformes, Callionymoidei) from the South Arabian coast, northwestern Indian Ocean. – Journal of Natural History, **15** (4): 685–692; London.
– (1981c): Revision of the genus *Synchiropus* (Teleostei: Callionymidae). – 194 pp.; Braunschweig (J. Cramer).
– (1981d): Two new and a rare species of the genus *Callionymus* (Teleostei: Callionymidae). – Annali di Museo Civico di Storia Naturale Genova, **83**: 387–400; Genova.
– (1981e): The *kaianus*-group of the genus *Callionymus* (Pisces, Callionymidae), with descriptions of six new species. – Proceedings of the California Academy of Sciences, **42** (14): 349–377; San Francisco.
– (1981f): Four new species of the genus *Callionymus* (Teleostei: Callionymidae) from the Philippine Islands and adjacent areas. – Zoologische Beiträge (N.F.), **27** (1): 143–170; Berlin.
– (1982a): New species of *Callionymus*, with a revision of the *variegatus*-group of that genus (Teleostei: Callionymidae). – Journal of Natural History, **16**: 127–146; London.
– (1982b): A new species of the genus *Callionymus* from India (Teleostei: Callionymidae). – Journal of Natural History, **16**: 345–349; London.
– (1982c): Nominal genera and species of dragonets (Teleostei: Callionymidae, Draconettidae). – Annali di Museo Civico di Storia Naturale Genova, **84**: 53–92; Genova.
– (1982d): Systematics and phylogeny of the family Callionymidae. (Abstract). – 4. Europäischer Ichthyologen-Kongreß; Hamburg.
– (1983a): A new species of the genus *Callionymus* from St. Helena (Teleostei: Callionymidae). – Annali di Museo Civico di Storia Naturale Genova, **84**: 393–399; Genova.
– (1983b): Revision of the Indo-Pacific genera and species of the dragonet family Callionymidae (Teleostei). – X + 774 pp.; Braunschweig (J. Cramer).
– (1984a): Status of the names *Callionymus sagitta* Pallas, 1770 and *Callionymus filamentosus* Valenciennes, 1837 (Teleostei: Callionymidae), and request to make an exception from article 75c (4) and (5) for designating a neotype for *Callionymus sagitta* Pallas, 1770. Z.N.(S.) 2435. – Bulletin of Zoological Nomenclature, **41** (1): 58–61; London.
– (1984b): Callionymidae. 6 pp. - *In*: FISCHER, W. & G. BIANCHI (eds.): FAO (Food and

Agriculture Organization of the United Nations) Species Identification Sheets for Fishery Purposes. Western Indian Ocean (Fishing Area 31). – Vol. **1**; Rome (FAO).
– (1984c): A new species of the dragonet genus *Synchiropus* from the Mariana Islands (Teleostei: Callionymidae). – Annali di Museo Civico di Storia Naturale Genova, **85**: 67–72; Genova.
– (1985a): Polytypy of *Synchiropus agassizi* (Goode & Bean, 1888), with the description of a new subspecies from the Western Atlantic (Teleostei: Callionymidae). – Annali di Museo Civico di Storia Naturale, **85**: 235–249; Genova.
– (1985b): *Protogrammus*, a new genus of dragonets (Callionymidae), with a redescription of *P. sousai* from Great Meteor Bank, Eastern Atlantic. – Japanese Journal of Ichthyology, **32** (3): 294–298; Tokyo.
– (1986a): Zoogeographie der Callionymidae (Osteichthyes: Perciformes) des Atlantischen Ozeans. – Diplomarbeit (Technische Universität Braunschweig), 164 pp.; Braunschweig.
– (1986b): Family No. 239: Callionymidae. Pp. 770–774, pl. 121. - *In*: Smith, M.M. & P.C. Heemstra (eds.): Smith's Sea Fishes; Johannesburg (Macmillan South Africa).
– (1986c): Callionymidae. Pp. 1086–1093. - *In*: Whitehead, P.J.P. et alii (eds.): Fishes of the North-eastern Atlantic and Mediterranean. – Vol. **3**; Paris (UNESCO).
– (1986d): Draconettidae. Pp. 1094–1095. – *In*: Whitehead, P.J.P. et alii (eds.): Fishes of the North-eastern Atlantic and Mediterranean. – Vol. **3**; Paris (UNESCO).
– (1987): Callionymidae. Pp. 1002–1006. - *In*: Fischer, W., M. Schneider & M.-L. Bauchot: Mediterranée et Mer Noire. Zone du Pêche 37. Révision 1. Volume **2**. Vertebrés. – Pp. 761–1530; Rome (FAO).
– (1988): Systematik und historische Zoogeographie der Callionymidae (Teleostei) des Indischen Ozeans. – Inaugural-Dissertation (Albert-Ludwigs-Universität), 1–612 pp.; Freiburg.
– (1989a): New species and new records of *Callionymus* from the Pacific Ocean (Teleostei: Callionymidae). – Hydrobiologica, **183**: 47–57; Dordrecht.
– (1989b): *Callionymus pusillus* Delaroche, 1809 (Osteichthyes, Perciformes): proposed conservation of the specific name. (Case 2688). – Bulletin of Zoological Nomenclature, **46** (4): 255–258; London.
– (1990): A new and a rare species of dragonet (Teleostei: Callionymidae) from New Guinea and the Solomon Islands. – Stuttgarter Beiträge zur Naturkunde (A), **446**: 1–13; Stuttgart.
– (1991): Types and historical materials in the fish collection of the Staatliches Museum für Naturkunde in Stuttgart. I. The Bleeker collection. – Stuttgarter Beiträge zur Naturkunde (A), **471**: 1–85; Stuttgart.
– (1992a): Revision of the family Draconettidae (Teleostei), with descriptions of two new species and a new subspecies. – Journal of Natural History, **26**: 165–195; London.
– (1992b): *Synchiropus kuiteri*, a minute new dragonet (Callionymidae) from Flores, Indonesia. – Revue Française d'Aquariologie, **19** (3): 81–84; Nancy.
– (1993a): A new species of *Callionymus* (Teleostei: Callionymidae) from Papua New Guinea. – Stuttgarter Beiträge zur Naturkunde (A), **491**: 1–4; Stuttgart.
– (1993b): Pisces Teleostei: Callionymidae of New Caledonia with descriptions of new species. Pp. 361–376. - *In*: Crosnier, A. (ed.): Résultats des campagnes MUSORSTOM, tome **11**. – Mémoires du Muséum National d'Histoire Naturelle, 158; Paris.
– (1995): Types and historical materials in the fish collection of the Staatliches Museum für Naturkunde in Stuttgart. Part 3. – Stuttgarter Beiträge zur Naturkunde (A), **524**: 1–30; Stuttgart.
– (1998): Callionymid fishes trawled off Wallis and Futuna, central Pacific Ocean, with descriptions of two new species of *Callionymus* (Teleostei: Callionymidae). – Stuttgarter Beiträge zur Naturkunde (A), **567**: 1–9; Stuttgart.
– (1999a): Fishes of the Mascarene Islands (Réunion, Mauritius, Rodriguez). An annotated checklist, with descriptions of new species. – VIII + 759 pp.; Koenigstein (Koeltz Scientific Books).
– (1999b): Annotated checklist of the marine and estuarine fishes of Germany, with remarks on their taxonomic identity. – Stuttgarter Beiträge zur Naturkunde (A), **587**: 1–67; Stuttgart.
– (2000a): Callionymidae of New Caledonia, with remarks on related species and de-

scriptions of 10 new species from New Caledonia, Australia, New Guinea, and Hawaii (Teleostei). – Stuttgarter Beiträge zur Naturkunde (A), **617**: 1–81; Stuttgart.

– (2000b): Family Callionymidae (dragonets). P. 634. – *In*: RANDALL J.E. & K.K.P. LIM (eds.): A checklist of the fishes of the South China Sea. – The Raffles Bulletin of Zoology (Supplement), **8**: 569–667; Singapore.

– (2000c): Family Draconettidae. P. 635. – *In*: RANDALL J.E. & K.K.P. LIM (eds.): A checklist of the fishes of the South China Sea. – The Raffles Bulletin of Zoology (Supplement), **8**: 569–667; Singapore.

– (2001a): Suborder Callionymoidei. Callionymidae. Dragonets. – Pp. 3549–3571. – *In*: CARPENTER, K.E. & NIEM, V. H. (eds.): FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific. Volume **6**. Bony fishes, part 4 (Labridae to Latimeriidae, estuarine crocodiles, sea turtles, sea snakes and marine mamals). – Pp. 3381–4218; Rome (Food and Agriculture Organization of the United Nations).

– (2001b): Suborder Callionymoidei. Draconettidae. Deepwater dragonets. – Pp. 3572–3573. - *In*: CARPENTER, K.E. & NIEM, V. H. (eds.): FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific. Volume **6**. Bony fishes, part 4 (Labridae to Latimeriidae, estuarine crocodiles, sea turtles, sea snakes and marine mamals). – Pp. 3381–4218; Rome (Food and Agriculture Organization of the United Nations).

– (2002a): *Centrodraco abstractum*, a new species of deepwater dragonet from the Philippines (Teleostei: Draconettidae). – Stuttgarter Beiträge zur Naturkunde (A), **633**: 1–8; Stuttgart.

– (2002b): *Callionymus ogilbyi*, a new species of eastern Australian dragonet, with a redescription of *Callionymus scaber* McCulloch (Teleostei: Callionymidae). – Stuttgarter Beiträge zur Naturkunde (A), **634**: 1–12; Stuttgart.

FRICKE, R., M.-L. BAUCHOT & M. DESOUTTER (1984): Catalogue critique des types de poissons du Muséum national d'Histoire Naturelle (Suite) (Sous-ordre des Callionymoides). – Bulletin du Muséum National d'Histoire Naturelle (Supplément) (4) **6** (A,3): 103–111; Paris.

FRICKE, R. & U. HECKELE (1984): A new dragonet (Callionymidae) of the genus *Callionymus* from Australia. – Japanese Journal of Ichthyology, **30** (4): 368–370; Tokyo.

FRICKE, R. & C.-L. LEE (1993): *Callionymus leucopoecilus*, a new dragonet (Callionymidae) from the Yellow Sea. – Japanese Journal of Ichthyology, **39** (4): 275–279; Tokyo.

FRICKE, R. & H.-J. PAEPKE (1992): Kritischer Katalog der Typen der Fischsammlung des Zoologischen Museums Berlin. Teil 3: Notothenioidei, Callionymoidei. – Mitteilungen des Zoologischen Museums Berlin, **68** (1): 93–99; Berlin.

FRICKE, R. & H.-L. WU (1986): Revision of the Chinese species of the dragonet family Callionymidae (Teleostei). Abstract. – Annual Conference of the Chinese Ichthyological Society, Papers, **1986**: 10–12; Beijing [in Chinese].

FRICKE, R. & H.-L. WU (1992): Revision of the Chinese species of the dragonet family Callionymidae. – Contributions from Tianjin Natural History Museum, **1992**: 1–42; Tianjin [in Chinese, with English summary].

FRICKE, R. & M.J. ZAISER (1982): Redescription of *Diplogrammus xenicus* (Teleostei: Callionymidae) from Miyake-jima, Japan, with ecological notes. – Japanese Journal of Ichthyology, **29** (3): 253–259; Tokyo.

– & – (1983): A new callionymid fish, *Synchiropus kiyoae*, from the Izu Islands, Japan. – Japanese Journal of Ichthyology, **30** (2): 122–128; Tokyo.

FRICKE, R. & M. ZAISER BROWNELL (1993): Two new dragonets of the genus *Callionymus* (Callionymidae) and a record of *Callionymus corallinus* Gilbert, 1905 from Miyake-jima, Izu Islands, Japan. – Japanese Journal of Ichthyology, **40** (1): 1–10; Tokyo.

GARMAN, S. (1899): Reports on an exploration off the west coasts of Mexico, Central and South America, and off the Galapagos Islands, in charge of ALEXANDER AGASSIZ, by the U.S. Fish Commission steamer "Albatross," during 1891, Lieut. Commander Z.L. TANNER, U.S.N., commanding. XXVI. The fishes. – Memoirs of the Museum of Comparative Zoology, Harvard College, **24**: 1–431, pls 1–97, 1 map; Cambridge, Massachusetts.

GESNER, C. (1563): Fischbuch, das ist eine kurtze, doch vollkommne beschreibung aller Fischen so in dem Meer und süssen wasseren, Seen, Flüssen, oder anderen Bächen jr wo-

nung habend, sampt irer waren conterfactur, zu nutz und gutem allen Artzeten, Maleren, Weydelüten und Köchen gestellt .../Erstlich in Latin durch ... CUNRAT GEßNER beschriben: yetz neüwlich aber durch D. CUNRAT FORER zu grösserem nutz allen liebharbernen der künsten in das Teutsch gebracht. – Pp. 1–6 (unnumbered), I-CCII (double pages); Zürich (Froschower) (1st edition in German).

GIGLIOLI, E.H. (1883): Intorno a due nuovi pesci del Golfo di Napoli. – Zoologischer Anzeiger, **6** (144): 397–400; Leipzig.

GILBERT, C.H.(1905): The deep-sea fishes of the Hawaiian Islands. – Bulletin of the United States Fish Commission, **23** (2), (1903): 575–713, pls. 66–109; Washington, D.C.

GILBERT, C.R. (1974): Recent fishes. Pp. 110–115. – *In*: GILBERT, C.R. (ed.): Catalogue of type specimens in the Department of Natural Sciences, Florida State Museum. – Bulletin of the Florida State Museum (Biological Sciences), **18** (2); Gainesville, Florida.

GILL, T.N. (1859): On the genus *Callionymus* of authors. – Proceedings of the Academy of Natural Sciences of Philadelphia **1859**: 128–130; Philadelphia.

– (1865): XV. On a new family type related to the blennioids. – Annals of the Lyceum of Natural History New York, **8**: 141–144; New York.

GILTAY, L. (1933): Résultats scientifiques du voyage aux Indes orientales Néerlandaises de LL. AA. RR. le Prince LÉOPOLD DE BELGIQUE. – Mémoires du Musée Royale d'Histoire Naturelle de Belgique, **5** (3): 1–129; Bruxelles.

GOODE, G.B. & T.H. BEAN (1888): Fishes. Pp. 21–36. – *In*: AGASSIZ, A.: Three cruises of the United States coast and geodetic survey steamer "Blake". – Bulletin of the Museum of Comparative Zoology, Harvard College, **15** (in 2 volumes): I-XXII + 1–314 and 1–220; Cambridge, Massachusetts.

– (1896): Oceanic ichthyology, a treatise on the deep-sea and pelagic fishes of the world, based chiefly upon the collections made by steamers "Blake", "Albatross" and "Fish Hawk" in the northwestern Atlantic. – Memoirs of the Museum of Comparative Zoology, Harvard College, **1** (text): XXXV + 553 pp.; **2** (atlas): XXIII + 26 pp., 123 pls; Cambridge, Massachusetts.

GOSLINE, W.A. (1959): Four new species, a new genus, and a new suborder of Hawaiian fishes. – Pacific Science, **13**: 67–77; Honolulu.

GRAY, J.E. (1835): Fishes. Pls. 88–102. – *In*: GRAY, J.E.: Illustrations of Indian zoology of new and hitherto unfigured Indian animals from the collection of General HARDWICKE; F.R.S. – Vol. **2**; London.

– (1854): Catalogue of fish collected and described by LAURENCE THEODORE GRONOW, now in the British Museum. – Pp. I-VII + 1–196; London (British Museum).

GÜNTHER, A.C.L.G. (1861): Catalogue of the acanthopterygian fishes in the British Museum. – Vol. **3**. Gobiidae, Discoboli, Oxudercidae, Batrachidae, Pediculati, Blenniidae, Acanthoclinidae, Comephoridae, Trachypteridae, Lophotidae, Teuthididae, Acronuridae, Hoplognathidae, Malacanthidae, Nandidae, Polycentridae, Labyrinthici, Luciocephalidae, Atherinidae, Mugilidae, Ophiocephalidae, Trichonotidae, Cepolidae, Gobiesocidae, Psychrolutidae, Centriscidae, Fistulariidae, Mastacembelidae, Notacanthi. – XXV + 586 + X pp.; London (British Museum).

– (1864): Description of a new species of *Callionymus* from Australia. – Annals and Magazine of Natural History (3), **14**: 197–198; London.

– (1872): Report on several collections of fishes recently obtained for the British Museum. – Proceedings of the Zoological Society of London, **1871** (3): 652–675, pls 53–70; London.

– (1873): Report on a collection of fishes from China. – Annals and Magazine of Natural History (4), **12** (69): 239–250; London.

– (1877): ANDREW GARRETT's Fische der Südsee. Band II, Heft VI. – Journal des Museums Godeffroy, **4** (13): 169–216, pls 101–120; Hamburg.

– (1880): Report on the shore fishes procured during the voyage of H.M.S. "Challenger" in the years 1873–1876. – Report on the Scientific Results of the Voyage of H.M.S. "Challenger" during the Years 1873–1876, Zoology, **1** (6): 1–82, pls 1–32; London.

HERRE, A.W.C.T. (1927): A new genus and three new species of Philippine fishes. – Philippine Journal of Science, **32** (3): 413–419, pls. 1–3; Manila.

– (1928): Three new Philippine fishes. – Philippine Journal of Science, **35** (1): 31–37, pls 1–3; Manila.

– (1934): Notes on fishes in the Zoological Museum of Stanford University, 1. The fishes

of the HERRE Philippine Expedition of 1931. The fishes of the HERRE 1931 Philippine Expedition with description of 17 new species. – 106 pp.; Hong Kong.
– (1935): New fishes obtained by the Crane Pacific Expedition. – Publication of the Field Museum of Natural History (Zoological Series), **18** (12): 383–438; Chicago.
– (1936): Notes on the fishes in the Zoological Museum of Stanford University, 4. A new catostomid fish from Mexico and a new callionymid from Celebes and the Philippines. – Proceedings of the Biological Society of Washington, **49**: 11–13; Washington D.C.
– (1953): A check list of the fishes of the Philippines. – Fish and Wildlife Service, U.S. Department of the Interior, Research Report, **20**: 1–977; Washington D.C.
HILDEBRAND, S.F. & O. BARTON (1949): A collection of fishes from Talara, Peru. – Smithsonian Miscellaneous Collections, **111** (10): 1–36; Washington D.C.
HOUTTUYN, M. (1782): Beschrijving van eenige Japanische visschen en andere zeeschenpselen. – Verhandelingen van de Hollandsche Maatschappij van Wetenschapen, **20** (2): 311–350; Haarlem.
HUTCHINS, J.B. & K.N. SMITH (1991): A catalogue of type specimens of fishes in the Western Australian Museum. – Records of the Western Australian Museum (Supplement), **38**: 1–56; Perth.
IBARRA, M. & D.J. STEWART (1987): Catalogue of type specimens of recent fishes in the Field Museum of Natural History. – Fieldiana (Zoology, N. S.), **35**: 1–112; Chicago.
JATZOW, R. & H. LENZ (1898): Fische von Ost-Afrika, Madagaskar und Aldabra. – Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft, **21** (3): 497–531, pls 34–36; Frankfurt/Main.
JOHNSON, C.R. (1971): Revision of the callionymid fishes referable to the genus *Callionymus* from Australian waters. – Memoirs of the Queensland Museum, **16** (1): 103–140; Brisbane.
– (1976): *Callionymus russelli*, a new species of callionymid fish from Queensland, Australia. – Zoological Journal of the Linnean Society, **58**: 345–351, pl. 1; London.
JORDAN, D.S. (1888): Description of a new species of *Callionymus* (*Callionymus bairdi*) from the Gulf of Mexico. – Proceedings of the United States National Museum, **10**: 501–502; Washington D.C.
– (1917): The genera of fishes, from LINNAEUS to CUVIER, 1758–1833, seventy-five years, with the accepted type of each. A contribution to the stability of scientific nomenclature. – Leland Stanford Junior University Publications (University Series), **27**: 1–161; Stanford.
JORDAN, D.S. & H.W. FOWLER (1903): A review of the dragonets (Callionymidae) and related fishes of the waters of Japan. – Proceedings of the United States National Museum, **25** (1305) (for 1902): 939–959; Washington D.C.
JORDAN, D.S. & C.L. HUBBS (1925): Record of fishes obtained by DAVID STARR JORDAN in Japan, 1922. – Memoirs of the Carnegie Museum, **10** (2): 93–346, pls 5–12; Pittsburgh.
JORDAN, D.S. & E.K. JORDAN (1922): A list of the fishes of Hawaii, with notes and descriptions of new species. – Memoirs of the Carnegie Museum, **10** (1): 1–92, pls 1–4; Pittsburgh.
JORDAN, D.S. & A. SEALE (1906a): The fishes of Samoa. Descriptions of the species found in the archipelago, with a provisional check-list of the fishes of Oceania. – Bulletin of the United States Bureau of Fisheries, **25**, (1905): 175–455, pls 33–53; Washington D.C.
– & – (1906b): Descriptions of six new species of fishes from Japan. – Proceedings of the United States National Museum, **30** (1445): 143–148; Washington D.C.
JORDAN, D.S. & J.O. SNYDER (1900): A list of fishes collected in Japan by KEINOSUKE OTAKI, and by the United States steamer Albatross, with descriptions of fourteen new species. – Proceedings of the United States National Museum, **23** (1213): 335–380, pls 9–20; Washington D.C.
JORDAN, D.S. & W.F. THOMPSON (1914): Record of the fishes obtained in Japan in 1911. – Memoirs of the Carnegie Museum, **6** (4): 205–313, pls 24–42; Pittsburgh.
KAMOHARA, T. (1936): Two new deep-sea fishes from Japan. – Annotationes Zoologiae Japonicae, **15** (4): 446–448; Tokyo.
– (1952): Revised descriptions of the offshore bottom fishes of Province Tosa, Shikoku, Japan. – Report of the Kochi University (Natural Sciences), **3**: 1–122; Kochi.
– (1961): Notes on the type specimens of fishes in my laboratory. – Report of the Usa Marine Biological Station, **8** (1): 1–9; Usa, Japan.

KOTTHAUS, A. (1977): Fische des Indischen Ozeans. A. Systematischer Teil. XIX: Percomorphi (9). – "Meteor" Forschungsergebnisse, (D) **25**: 24–44; Stuttgart.

KRAMBERGER-GORJANOVIC, D. (1882): Die jungtertiäre Fischfauna Croatiens. 2. Theil. – Beiträge zur Paläontologie Österreich-Ungarns und des Orients, **2**: 89–135, pls 22–28; Wien.

KURODA, N. (1951): A nominal list with distribution records of the fishes of Suruga Bay, inclusive of the freshwater species found near the coast (continued). – Japanese Journal of Ichthyology, **1** (6): 376–394; Tokyo.

– (1952): Additions to the fishes of Suruga Bay (X). – Dobutsugaku Zasshi (Zoological Magazine), **61** (6): 169–177; Tokyo [in Japanese, with English summary].

LACEPÈDE, B.G.E. (1800): Histoire naturelle des poissons. Tome **2**. – LXIV + 632 pp.; Paris (Plassan) [publication date see ROUX, 1973: 33–35].

LAL MOHAN, R.S. (1968): *Callionymus jonesii*, a new callionymid fish (Pisces: Callionymidae) from the east coast of India. – Journal of the Marine Biological Association of India, **10** (2): 357–360, pl. 1 A-B; Cochin.

LESUEUR, C.A. (1814): Note sur deux poissons non encore décrits du genre Callionyme et de l'ordre des Jugulaires. – Bulletin de la Société Philomatique, **1**: 5–6, pl. 1; Paris.

LI, S.-C. (1966): New species and new Chinese records of callionymoid fishes from the South China Sea. – Acta Zootaxonomica Sinica, **3** (2): 167–176; Beijing [in Chinese and English].

LINNAEUS, C. (1758): Systema naturae, ed. 10, vol. **1**. Nantes et Pisces. – Pp. 230–338; Holmiae (L. Salvius).

MACLEAY, W. (1881): Descriptive catalogue of the fishes of Australia; 2. – Proceedings of the Linnean Society of New South Wales, **5**: 510–629; Sydney.

MAUL, G.E. (1972): On a new species of the genus *Callionymus* from the Great Meteor Seamount (Percomorphi, Callionymoidea, Callionymidae). – Bocagiana, **30**: 1–7; Funchal.

MCCULLOCH, A.R. (1926): Report on some fishes obtained by F.I.S. "Endeavour" on the coasts of Queensland, New South Wales, Victoria, Tasmania, and southwestern Australia; 5. – Biological Results of F.I.S. "Endeavour" 1909–1914, **15** (4): 157–216, pls 43–56; Sydney.

MCKAY, R.J. (1971): Two new genera and five new species of percophidid fishes (Pisces, Percophididae) from Western Australia. – Journal and Proceedings of the Royal Society of Western Australia, **54** (2): 40–46; Perth.

MENON, A.G.K. & K.V. RAMA-RAO (1975): A catalogue of type-specimens of fishes described in the biological collections of R.I.M.S. "Investigator" during 1884–1926. – Matsya, **1**: 31–48; Madras.

MENON, A.G.K. & G.M. YAZDANI (1968): Catalogue of type-specimens in the Zoological Survey of India. Part 2. Fishes. – Record of the Zoological Survey of India, **61** (1–2) (1963): 91–190; Calcutta.

METZELAAR, J. (1919): Report on the fishes, collected by Dr. J. BOEKE, in the Dutch West Indies, 1904–05, with comparatine notes on marine fishes of tropical West Africa. – Rapport voor Vischerij Industrie en Zeeprodukten een de Kolonie Curaçao: 1–315; s'Gravenhage.

MOYER, J.T. & K. MATSUURA (1991): Notes on the transfer of the TMBS fish paratypes to the National Science Museum, Tokyo. – Japanese Journal of Ichthyology, **38** (1): 82–83; Tokyo.

MYERS, R.F. (1999): Micronesian reef fishes. A comprehensive guide to the coral reef fishes of Micronesia. 3rd revised and expanded edition. – Pp. I-VI + 1–330, pls 1–192; Barrigada, Guam (Coral Graphics).

NAKABO, T. (1977): A new dragonet, *Callionymus draconis*, taken from Kochi Prefecture, Japan. – Japanese Journal of Ichthyology, **24** (2): 98–100; Tokyo.

– (1979): A new and two rare species of *Callionymus* from the western Indian Ocean. – Japanese Journal of Ichthyology, **26** (3): 231–237; Tokyo.

– (1982a): Revision of the family Draconettidae. – Japanese Journal of Ichthyology, **28** (4): 355–367; Tokyo.

– (1982b): Revision of genera of the dragonets (Pisces: Callionymidae). – Publications of the Seto Marine Biological Laboratory, **27** (1/3): 77–131; Seto.

– (1983a): Revision of the dragonets (Pisces: Callionymidae) found in the waters of Japan. – Publications of the Seto Marine Biological Laboratory, **27** (4–6): 193–259; Seto.

– (1983b): Demersal fish community in Shijiki Bay – II. Seasonal changes in occurrence of major species and seasonal division of the community. – Bulletin of the Seikei Regional Fisheries Research Laboratory, **59**: 47–70; Seikei [in Japanese].
– (1983c): Comparative osteology and phylogenetic relationships of the dragonets (Pisces: Callionymidae) with some thoughts of their evolutionary history. – Publications of the Seto Marine Biological Laboratory, **28** (1/4): 1–73; Seto.
– (1984): A new species of the genus *Paradiplogrammus* (Callionymidae) from the western Pacific. – Japanese Journal of Ichthyology, **31** (2): 150–155; Tokyo.
– (1987): A new species of the genus *Foetorepus* (Callionymidae) from southern Japan with a revised key to the Japanese species of the genus. – Japanese Journal of Ichthyology, **33** (4): 335–341; Tokyo.
– (1991a): First description of early juveniles of *Neosynchiropus ocellatus* (Pisces: Callionymidae) from the Okinawa and Izu, Japan. – Izu Oceanic Park Diving News, **2** (20): 2–5; Ito.
– (1991b): Redescription of a rare callionymid fish, *Paradiplogrammus corallinus*, from Hawaii and Japan. – Japanese Journal of Ichthyology, **38** (3): 249–253; Tokyo.
– (ed.) (1993): Fishes of Japan with pictorial keys to the species. – (10 +) XXXIV + 1474 (+ 2) pp.; Tokyo (Tokai University Press).
NAKABO, T. & K.E. HARTEL (1999): *Foetorepus goodenbeani*: a new species of dragonet (Teleostei: Callionymidae) from the Western North Atlantic. – Copeia, **1999** (1): 114–121; Lawrence, Kansas.
NAKABO, T. & M. HAYASHI (1991): New record of *Pseudocalliurichthys pleurostictus* (Callionymidae) from Amami O-shima, Japan. – Japanese Journal of Ichthyology, **38** (1): 73–76; Tokyo.
NAKABO, T., S.-R. JEON & S.-Z. LI (1987): A new species of the genus *Repomucenus* (Callionymidae) from the Yellow Sea. – Japanese Journal of Ichthyology, **34** (3): 286–290; Tokyo.
–, – & – (1991): Description of the neotype of *Repomucenus sagitta* (Callionymidae) with comments on the species. – Japanese Journal of Ichthyology, **38** (3): 255–262; Tokyo.
NAKABO, T. & R.J. MCKAY (1989): A new species of the genus *Foetorepus* (Pisces: Callionymidae) from Queensland. – Memoirs of the Queensland Museum, **27** (2): 563–565; Brisbane.
NAKABO, T., H. SENOU & M. AIZAWA (1998): New species of *Pseudocalliurichthys* (Teleostei: Callionymidae) from Iriomote Island, Japan. – Copeia, **1998** (2): 451–455; Lawrence, Kansas.
NAKABO, T. & E. YAMAMOTO (1980): A new draconettid, *Centrodraco otohime*, from the Kyushu-Palau Ridge. – Japanese Journal of Ichthyology, **26** (4): 325–328; Tokyo.
NAKABO, T., E. YAMAMOTO & C.-H. CHEN (1983): Two new species of the genus *Foetorepus* (Callionymidae) from the Emperor Seamounts, north-central Pacific. – Japanese Journal of Ichthyology, **29** (4): 349–354; Tokyo.
NALBANT, T.T. (1979): Studies on the reef fishes of Tanzania. II. *Neosynchiropus bacescui* gen. n. sp. n., an interesting dragonet fish from Makatumbe coral reefs (Pisces, Perciformes, Callionymoidei). – Travaux du Muséum d'Histoire Naturelle "Grigore Antipa", **20** (1): 349–352; Bucuresti.
NARDO, G.D. (1847): Sinonimia moderna delle specie registrate nell' opera initolata: "Descrizione de' crostacei, de' testacei e de' pesci che abitanno le lagune e golfo veneto reppresentati in figure è chiaroscuro ed a colori; Venezia.
NIELSEN, J.G. (1974): Fish types in the Zoological Museum of Copenhagen. – 115 pp.; Copenhagen (Zoological Museum, University of Copenhagen).
NIJSSEN, H., L. VAN TUJIL & I.J.H. ISBRÜCKER (1982): A catalogue of the type-specimens of recent fishes in the Institute of Taxonomic Zoology (Zoölogisch Museum), University of Amsterdam, The Netherlands. – Verslagen van Technische Gegevens, **33**: 1–173; Amsterdam.
NINNI, E. (1934): I *Callionymus* dei mari d'Europa. – Notas y Resumenes del Instituto Español de Oceanografia (2), **85**: 1–59, pls 1–13; Madrid.
NOLF, D. (1985): Otolithi piscium. – IV + 145 pp.; Stuttgart, New York (Gustav Fischer).
NOLF, D. & H. LAPIERRE (1979): Otolithes de poissons nouveaux ou peu connus du Calcaire Grossier et de la formation d'Auvers (Éocène du Bassin parisien). – Bulletin du Muséum National d'Histoire Naturelle (4), **1**, (C, 2): 79–125; Paris.

NORMAN, J.R. (1939): Fishes. – Scientific Report of the John Murray Expedition, **7** (1): 1–116; London.

OCHIAI, A., C. ARAGA & M. NAKAJIMA (1955): A revision of the dragonets referable to the genus *Callionymus* found in the waters of Japan. – Publications of the Seto Marine Biological Laboratory, **5** (1/7): 95–132; Seto.

OGILBY, J.D. (1886): Catalogue of the fishes of New South Wales with their principal synonyms. – 67 pp.; Sydney.

– (1908): New or little known fishes in the Queensland Museum. – Annals of the Queensland Museum, **9** (1): 1–41; Brisbane.

– (1910a): On some new fishes from the Queensland coast. Endeavour Series, 1. – Pp. 85–139; Brisbane [privately published].

– (1910b): On new or insufficiently described fishes. – Proceedings of the Royal Society of Queensland, **23**: 1–55; Brisbane.

– (1911): Descriptions of new or insufficiently described fishes from Queensland waters. – Annals of the Queensland Museum, **10**: 36–58, pls 5–6; Brisbane.

OKADA, Y. & H. IKEDA (1937): Notes on fishes of the Riu Kiu Islands. 2. Pomacentridae and Callionymidae. – Bulletin of the Biogeographical Society of Japan, **7** (7): 67–95; Tokyo.

Opinion 1388 (1986): *Callionymus sagitta* Pallas, 1770 (Osteichthyes, Callionymidae): Neotype designated. – Bulletin of Zoological Nomenclature, **43** (2): 132–133; London.

Opinion 1658 (1991): *Callionymus pusillus* Delaroche, 1809 (Osteichthyes, Perciformes): specific name conserved. – Bulletin of Zoological Nomenclature, **48** (3): 274–275; London.

PAEPKE, H.-J. (2000): BLOCH's fish collection in the Museum für Naturkunde der Humboldt-Universität zu Berlin: an illustrated catalog and historical account. – 216 pp., 31 pls (1999); Ruggell, Liechtenstein (Gantner).

PALLAS, P.S. (1770): Spicilegia zoologica, quibus novae imprimis et obscurae animalium species iconibus, descriptionibus atque commentariis illustrantur. Tomus **2**, fasc. 8, pp. 1–54, pls 1–5; Berolini (Gottl. August Lange).

– (1771–1776): Reise durch verschiedene Provinzen des Russischen Reiches. – Vol. **1** (1771): 12 unnumbered pp. + pp. 1–504, pls A-L; vol. **2** (1773): Part 1, 4 unnumbered pp. + pp. 1–368; part 2, pp. 368–744, pls A-Z; vol. **3** (1776): Part 1, 20 unnumbered pp. + pp. 1–454; part 2, pp. 455–760, index, pls. A-Z, AA-NN; St. Petersburg.

– (1811): Zoographica Rosso-Asiatica; 3. Imperio Rossici animalia; Petropolis.

PARIN, N.V. (1982): New species of the genus *Draconetta* and a key for the family Draconettidae (Osteichthyes). – Zoologiceskij Zhurnal, **61** (4): 554–563; Moskva [in Russian].

PARR, A.S. (1930): Teleostean shore and shallow water fishes from the Bahamas and Turks Island. – Bulletin of the Bingham Oceanographic Collection, **3** (4): 1–148; New Haven.

PETERS, W.C.H. (1855a): Übersicht der in Mossambique beobachteten Seefische. – Monatsberichte der Akademie der Wissenschaften zu Berlin, **1855**: 428–466; Berlin.

– (1855b): Uebersicht der in Mossambique beobachteten Fische. – Archiv für Naturgeschichte, **21** (2–3): 234–282; Berlin.

– (1877): Übersicht der während der von 1874 bis 1876 unter dem Commando des Hrn. Capitän z.S. Freiherrn VON SCHLEINITZ ausgeführten Reise der S.M.S. Gazelle gesammelten und von der Kaiserlichen Admiralität der Königlichen Akademie der Wissenschaften übersandten Fische. – Monatsbericht der Königlich Preussischen Akademie der Wissenschaften zu Berlin, **1876**: 831–854; Berlin.

POBEDINA, W.M. (1954): Iskopajemije otolity ryb miozenowyx otlozenij Aserbajdzana i ich stratigraficeskoe znacenie. – Izvestija Akademii Nauk Azerbajdshanskoj SSSR: 27–37, 5 pls; Baku.

POLL, M. (1949): Résultats scientifiques des croisières du Navire-École Belge "Mercator"; 4, poissons. – Mémoires de l'Institut Royal des Sciences Naturelles de Belgique (2), **33**: 173–269; Bruxelles.

RAFINESQUE-SCHMALTZ, C.S. (1810): Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia, con varie osservazioni sopra i medisimi. – 105 pp., 20 pls.; Palermo (Sanfilippo).

RANDALL, J.E. (1996): Shore fishes of Hawai'i. – Pp. I-X + 11–216; Vida, Oregon (Natural World Press).

– (1998): Review of the dragonets (Pisces: Callionymidae) of the Hawaiian Islands, with descriptions of two new species. – Pacific Science, **53** (2): 185–207; Honolulu.

RAO, V.V. (1976): *Pogonymus goslinei* sp. nov. (Pisces, Callionymidae) from Ennore estuary, Madras. – Matsya, **1** (1975): 27–29; Madras.

REGAN, C.T. (1904): On the affinities of the genus *Draconetta*, with description of a new species. – Annals and Magazine of Natural History (7), **14**: 130–131; London.

– (1905): On a collection of fishes from the Inland Sea of Japan made by R. GORDON SMITH. – Annals and Magazine of Natural History (7), **15**: 17–26; London.

– (1906): On fishes from the Persian Gulf, the Sea of Oman, and Karachi, collected by Mr. F.W. TOWNSEND. – Journal of the Bombay Natural History Society, **16** (1905): 318–333, pls 1–3; Bombay.

– (1908): Report on the marine fishes collected by Mr. J. STANLEY GARDINER in the Indian Ocean. – Transactions of the Linnean Society of London (2), **12** (3) (Zoology): 217–255, 9 pls.; London.

– (1913): The classification of percoid fishes. – Annals and Magazine of Natural History (8), **12**: 111–145; London.

– (1919): Fishes from Durban, Natal, collected by Messrs. H.W. BELL MARLEY and ROMER ROBINSON. – Annals of the Durban Museum, **2** (4): 197–204; Durban.

RICHARDSON, J. (1844a): Ichthyology. Pp. 71–150, pls 1–30. – *In*: HINDS, R.B. (ed.): The zoology of the voyage of H.M.S. "Sulphur", under the command of Captain Sir EDWARD BELCHER during the years 1836–42. – Vol. **2**; London.

– (1844b): Ichthyology. Part 1. Pp. 1–16. – *In*: RICHARDSON, J. & J.E. GRAY (eds.): The zoology of the voyage of H.M.S. "Erebus" and "Terror" under the command of Captain Sir JAMES CLARK ROSS, R.N., F.R.S., during the years 1839–43. – Vol. **2**; London (E.W. Janson).

– (1846): Report on the ichthyology of the seas of China and Japan. – Report of the Fifteenth Meeting of the British Association for the Advancement of Science, (June 1845): 187–320; Cambridge.

RISSO, A. (1810): Ichthyologie de Nice ou histoire naturelle des poissons du département des Alpes Maritimes. – XXXVI + 388 pp., pls 1–11; Paris.

– (1827): Histoire naturelle des principales productions de l'Europe méridionale et particulièrement de celles des environs de Nice et des Alpes maritimes. Tome **3**. – XVI + 486 pp.; Paris & Strasbourg.

RONDELETIUS, G. (1554): Libri de piscibus marinis, in quibus verae piscium effigies expressae sunt. Quae in tota piscium historia contineantur, indicat elenchus pagina nona & decima. – Pp. 1–15 (unnumbered) + 1–583 + 1–23 (unnumbered); Lugduni (Matthias Bonhomme).

ROUX, C. (1973): Les dates pour 'L'Histoire naturelle des Poissons' de LACEPÈDE. – Bulletin du Liaison des Musées d'Histoire Naturelle, **14**: 33–35; Paris.

SALVADORI, T. (1888): Le date della pubblicazione della "Iconografia della Fauna Italica" del Bonaparte ed indice delle specie illustrate in detta opera. – Bollettino dei Musei di Zoologia ed Anatomia Comparata della R. Università di Torino, **3** (48): 1–25; Torino.

SCHULTZ, L.P. (1943): Fishes of the Phoenix and Samoan islands collected in 1939 during the expedition of the U.S.S. "Bushnell". – Bulletin of the United States National Museum, **180**: I-X + 1–316; Washington D.C.

– (1960): Family Callionymidae. Pp. 397–410. – *In*: SCHULTZ, L.P. et alii: Fishes of the Marshall and Marianas Islands; 2. – Bulletin of the United States National Museum, **202** (2): I-IX + 1–438, pls 75–123; Washington D.C.

SCHULTZ, L.P. & L.P. WOODS (1948): A new name for *Synchiropus altivelis* Regan, with a key to the genera of the fish family Callionymidae. – Journal of the Washington Academy of Sciences, **38** (12): 419–420; Washington D.C.

SCHWARZHANS, W. (1973): Einige Otolithen aus dem Unteroligozän von Hückelhoven unter besonderer Berücksichtigung der Evolution der Trachinidae. – Mededeelingen van de Werkgroep voor Tertiaeren en Kvartaeren Geologie, **10**: 31–43, 2 pls; Leiden.

– (1977): Otolithen aus dem Unteroligozän (Tertiär) von Hückelhoven (Kreis Heinsberg, Nordrhein-Westfalen). – Decheniana, **130**: 268–292; Bonn.

SEALE, A. (1910): New species of Philippine fishes. – Philippine Journal of Sciences (A), **4** (6) (1909): 491–541, pls 1–13; Manila.

– (1940): Report on fishes from ALLAN HANCOCK Expedition in the California Academy of Sciences. – Records of the Allan Hancock Expedition 1932–1938, **9** (1): 1–46, pls 1–5; San Francisco.

SHERBORN, C.D. & F.A. KENTINK (1895): On the dates of the parts of SIEBOLD's 'Fauna Japonica' and GIEBEL's 'Allgemeine Zoologie' (first edition). – Proceedings of the Zoological Society of London, **1895**: 149–150; London.

SMITH, J.L.B. (1935): New or little known fishes from South Africa. – Records of the Albany Museum, **4** (2): 169–235; Grahamstown.

– (1963): Fishes of the families Draconettidae and Callionymidae from the Red Sea and the western Indian Ocean. – Ichthyological Bulletin (Department of Ichthyology), **28**: 547–564, pls 83–86; Grahamstown/South Africa (Rhodes University).

– (1966): An interesting new callionymid fish from Madagascar and the first record of a clingfish from there. – Annals and Magazine of Natural History (13), **8** (1965): 321–324; London.

SNYDER, J.O. (1911): Descriptions of new genera and species of fishes from Japan and the Riukiu Islands. – Proceedings of the United States National Museum, **40** (1836): 525–549; Washington D.C.

STANBURY, P.J. (1969): Type specimens in the Macleay Museum, University of Sydney. I. Fishes. – Proceedings of the Linnean Society of New South Wales, **93** (2): 203–210; Sydney.

SUTTKUS, R.D. (1970): Type specimens of fishes in the Tulane University collection with a brief history of the collection. – Tulane Studies in Zoology and Botany, **16** (3): 116–130; New Orleans.

SUWARDJI (1965): Notes on the genus *Callionymus* (Pisces, Callionymidae), mostly from Indonesian waters, with the description of three new species and a new subspecies. – Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening, **128**: 303–323, pls 46–48; Kjöbenhavn.

TANAKA, S. (1917): Eleven new species of fishes from Japan. – Zoological Magazine, **29** (339): 7–12; Tokyo.

TEMMINCK, C.J. & H. SCHLEGEL (1845): Pisces. Part VII-IX. Pp. 113–172, pls. 1–98 + A. – *In*: SIEBOLD, P.F. VON: Fauna Japonica, sive descriptio in itinere per Japoniam suscepto annis 1823–1830 collegit ... – Lugduni Batavorum. [Publication date according to SHERBORN & KENTIK (1895): 149–150; family Callionymidae: p. 151–156].

VALENCIENNES, A. (1837): Les Callionymes. – *In*: CUVIER, G.L.C.F.D. & A. VALENCIENNES: Histoire naturelle des poissons. Tome **12**. – XXIV + 507 + 1 pp., pls 344–368; Paris (F.G. Levrault).

VANNI, S. (1990): Cataloghi del Museo Zoologico "La Specola" dell' Universitá di Firenze. VIII. Osteichthys: Tipi. – Atti de la Societa Toscana delle Scienzie Naturales (B), **96**: 219–229; Pisa.

WALSCHAERTS, L. (1987): Catalogue des types de poissons récents de l'Institut Royal des Sciences naturelles de Belgique. – Documents de Travail, Institut Royal des Sciences Naturelle de Belgique, **40**: 1–67; Bruxelles.

WANG, Y.-H. & W. YE (1982): Notes on some rare marine fishes of China, with description of a new species of Callionymidae. – Oceanologia et Limnologia Sinica, **13** (2): 195–201; Qingdao.

WEBER, M. (1913): Die Fische der Siboga-Expedition. – Siboga Report, **57**: I-XII + 1–710, pls 1–12; Leiden.

WEILER, W. (1943): Die Otolithen aus dem Jungtertiär Südrumäniens. 1. Buglow und Sarmat. – Senckenbergiana, **26**: 87–115, pl. 1; Frankfurt/Main.

– (1968): Otolithi piscium (Neubearbeitung). – Fossilium Catalogus I: Animalia, **117**: 1–196; s'Gravenhage.

WHEELER, A. (1958): The Gronovius fish collection: a catalog and historical account. – Bulletin of the British Museum (Natural History) (Historical Series), **1** (5): 185–249, pls 26–34; London.

WHITLEY, G.P. (1931a): Studies in ichthyology. No. 4. – Records of the Australian Museum, **18** (3): 96–133, pls 11–16; Sydney.

– (1931b): New names for Australian fishes. – Australian Zoologist, **6** (4): 310–334, pls 25–27; Mosman.

– (1934): Supplement to the check-list of the fishes of New South Wales by J.R. MCCULLOCH. Fishes and fish-like animals of New South Wales, 3rd edition. – 12 unnumbered pages; Sydney (Australian Museum).

– (1944): New sharks and fishes from Western Australia. – Australian Zoologist, **10** (3): 252–273; Mosman.

– (1947): New sharks and fishes from Western Australia, 3. – Australian Zoologist, **11** (2): 129–150, pl. 11; Mosman.

WILKENS, H. & R. DOHSE (1993): Die Typen der Ichthyologischen Sammlung des Zoologischen Instituts und Zoologischen Museums der Universität Hamburg (ZMH) Teil IV. – Mitteilungen des Hamburgischen Zoologischen Museums und Instituts, **90**: 401–426; Hamburg.

WILLUGHBY, F. (1686): De historia piscium libri quatuor, jussu et sumptibus Societatis Regiae Londinensis editi. ... Totum opus recognovit, coaptavit, supplevit, librum etiam primum & secundum integros adjecit JOHANNES RAIUS e Societate Regia. – Vol. **1**, pp. 1–343 + 1–30 + 12 unnumbered, 104 pls; Oxonii/Oxford (Theatro Sheldoniano).

YEARSLEY, G.J., P.R. LAST & G.B. MORRIS (1997): Codes for Australian Aquatic Biota (CAAB): an upgraded and expanded species coding system for Australian fisheries databases. – CSIRO (Commonwealth Scientific and Industrial Research Organization) Marine Laboratories, Report, **224**: V + 16 + 109 pp.; Hobart.

ZAISER, M.J. & R. FRICKE (1985): *Synchiropus moyeri*, a new species of dragonet (Callionymidae) from Miyake-jima, Japan. – Japanese Journal of Ichthyology, **31** (4): 389–397; Tokyo.

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Appendix. Classification of the family Callionymidae

Genus *Anaora*
Anaora tentaculata

Genus *Callionymus*
Clade *Callionymus*
Subgenus *Callionymus (Callionymus)* – (former *C.-lyra*-group, taxonomic decision of Fricke, 1986a)
Callionymus bairdi
Callionymus fasciatus
Callionymus lyra
Callionymus maculatus
Callionymus pusillus
Callionymus reticulatus
Callionymus risso
Subgenus *Callionymus (Repomucenus)* – (former *C.-curvicornis*-group, taxonomic decision of Fricke, 1983b: 86)
Callionymus beniteguri
Callionymus calcaratus
Callionymus curvicornis
Callionymus koreanus
Callionymus lunatus
Callionymus mascarenus
Callionymus valenciennei
Subgenus *Callionymus* (subgen. 1) – (former *C.-melanotopterus*-group, taxonomic decision of Fricke, 1983b: 113)
Callionymus cooperi
Callionymus fluviatilis
Callionymus melanotopterus
Callionymus octostigmatus
Callionymus russelli
Callionymus sphinx
Callionymus umbrithorax
Callionymus virgis
Subgenus *Callionymus* (subgen. 2) – (former *C.-caeruleonotatus*-group, taxonomic decision of Fricke, 1983b: 98)
Callionymus caeruleonotatus
Callionymus leucobranchialis
Subgenus *Callionymus* (subgen. 3) – (former *C.-hindsii*-group, taxonomic decision of *Fricke*, 1983b: 164)
Callionymus hindsii
Callionymus megastomus
Subgenus *Callionymus* (subgen. 4)
Callionymus corallinus
Subgenus *Callionymus (Bathycallionymus)* – (former *C.-kaianus*-group, taxonomic decision of Fricke, 1983b: 67)
Callionymus africanus
Callionymus altipinnis
Callionymus bentuviai
Callionymus bifilum
Callionymus bleekeri

Callionymus carebares
Callionymus formosanus
Callionymus futuna
Callionymus guentheri
Callionymus kaianus
Callionymus kailolae
Callionymus kotthausi
Callionymus moretonensis
Callionymus ochiaii
Callionymus regani
Callionymus semeiophor
Callionymus sokonumeri
Callionymus whiteheadi

Subgenus *Callionymus (Paradiplogrammus)* – (former *C.-enneactis*-group, taxonomic decision of FRICKE, 1983b: 136)
Callionymus enneactis
Callionymus stigmatopareius

Subgenus *Callionymus (Callimucenus)* – (former *C.-sagitta*-group, taxonomic decision of FRICKE, 1983b: 76)
Callionymus amboina
Callionymus annulatus
Callionymus hainanensis
Callionymus hildae
Callionymus leucopoecilus
Callionymus macdonaldi
Callionymus marleyi
Callionymus mortenseni
Callionymus olidus
Callionymus planus
Callionymus sagitta

Subgenus *Callionymus (Velesionymus)* – (former *C.-acutirostris*-group, taxonomic decision of FRICKE, 1983b: 63)
Callionymus acutirostris
Callionymus erythraeus
Callionymus huguenini
Callionymus keeleyi
Callionymus limiceps
Callionymus macclesfieldensis
Callionymus meridionalis
Callionymus ornatipinnis
Callionymus schaapii
Callionymus sublaevis

Clade *Calliurichthys*

Subgenus *Callionymus* (subgen. 5) – (former *C.-filamentosus*-group, taxonomic decision of FRICKE, 1983b: 312)
Callionymus belcheri belcheri
Callionymus belcheri recurvispinnis
Callionymus doryssus
Callionymus filamentosus
Callionymus martinae
Callionymus platycephalus
Callionymus tenuis

Subgenus *Callionymus* (subgen. 6) – (former *C.-persicus*-group, taxonomic decision of FRICKE, 2000: 37)
Callionymus aagilis
Callionymus izuensis
Callionymus luridus
Callionymus neptunius
Callionymus persicus

Callionymus sereti
Callionymus superbus
Callionymus tethys
Callionymus zythros
Subgenus *Callionymus* (subgen. 7) – (former *C.-margaretae*-group, taxonomic decision of FRICKE, 2000: 37)
Callionymus australis
Callionymus margaretae
Subgenus *Callionymus* (subgen. 8) – (former *C.-scabriceps*-group, taxonomic decision of FRICKE, 2000: 37)
Callionymus colini
Callionymus scabriceps
Subgenus *Callionymus (Calliurichthys)* – (former *C.-japonicus*-group, taxonomic decision of FRICKE, 2000: 37)
Callionymus afilum
Callionymus decoratus
Callionymus gardineri
Callionymus japonicus
Callionymus ogilbyi
Callionymus rivatoni
Callionymus scaber
Subgenus *Callionymus (Pseudocalliurichthys)* – (former *C.-variegatus*-group, taxonomic decision of FRICKE, 1983b: 326)
Callionymus brevianalis
Callionymus comptus
Callionymus curvispinis
Callionymus delicatulus
Callionymus flavus
Callionymus goodladi
Callionymus grossi
Callionymus ikedai
Callionymus marquesensis
Callionymus pleurostictus
Callionymus simplicicornis
Callionymus variegatus
Clade *Spinicapitichthys*
Subgenus *Callionymus (Spinicapitichthys)* – (taxonomic decision of FRICKE, 1983b: 456)
Callionymus draconis
Callionymus io
Callionymus muscatensis
Callionymus obscurus
Callionymus oxycephalus
Callionymus spiniceps

Genus *Chalinops* (taxonomic decision of FRICKE (1986b: 154)
Chalinops pauciradiatus

Genus *Dactylopus* (taxonomic decision of FRICKE, 1983b: 481–482)
Dactylopus dactylopus

Genus *Diplogrammus* (taxonomic decision of FRICKE, 1983b: 491–492)
Subgenus *Diplogrammus*
Diplogrammus goramensis
Diplogrammus xenicus
Subgenus *Climacogrammus*
Diplogrammus infulatus
Diplogrammus pygmaeus
Diplogrammus randalli

Subgenus *Diplogrammoides*
Diplogrammus gruveli

Genus *Draculo* (taxonomic decision of FRICKE, 1983b: 529–530)
Draculo celetus
Draculo maugei
Draculo mirabilis
Draculo pogognathus
Daculo shango

Genus *Eleutherochir* (taxonomic decision of FRICKE, 1983b: 545).
Eleutherochir opercularis

Genus *Paracallionymus* (taxonomic decision of FRICKE, 1983b: 557).
Paracallionymus costatus

Genus *Protogrammus* (taxonomic decision of FRICKE, 1985b: 294–295).
Protogrammus sousai

Genus *Synchiropus*
Subgenus *Synchiropus (Yerutius)*
Synchiropus agassizii
Synchiropus atrilabiatus
Synchiropus dagmarae
Synchiropus goodenbeani
Synchiropus phaeton
Synchiropus phasis
Synchiropus valdiviae
Subgenus *Synchiropus (Foetorepus)* – (former *S.-altivelis*-group, taxonomic decision of FRICKE, 2000: 68–69)
Synchiropus altivelis
Synchiropus australis
Synchiropus calauropomus
Synchiropus delandi
Synchiropus grandoculis
Synchiropus grinnelli
Synchiropus hawaiiensis
Synchiropus kamoharai
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Synchiropus monacanthus
Synchiropus novaecaledoniae
Synchiropus orstom
Synchiropus paxtoni
Synchiropus richeri
Synchiropus signipinnis
Subgenus *Synchiropus (Synchiropus)* – (former *S.-lineolatus*-group, taxonomic decision of FRICKE, 1983b: 586)
Synchiropus lateralis
Synchiropus lineolatus
Synchiropus marmoratus
Subgenus *Synchiropus* (subgen. 1) – (former *S.-ocellatus*-group, taxonomic decision of FRICKE, 1983b: 586)
Synchiropus bartelsi
Synchiropus circularis
Synchiropus ijimae
Synchiropus morrisoni
Synchiropus moyeri

Synchiropus ocellatus
Synchiropus sechellensis
Synchiropus stellatus
Subgenus *Synchiropus* (subgen. 2)
Synchiropus rubrovinctus
Subgenus *Synchiropus (Eocallionymus)* – (former *S.-papilio*-group, taxonomic decision of FRICKE, 1983b: 606)
Synchiropus papilio
Subgenus *Synchiropus (Pterosynchiropus)* – (former *S.-splendidus*-group, taxonomic decision of FRICKE, 1983b: 648)
Synchiropus occidentalis
Synchiropus picturatus
Synchiropus splendidus
Subgenus *Synchiropus (Minysynchiropus)* – (former *S.-postulus*-group, taxonomic decision of FRICKE, 1983b: 606)
Synchiropus claudiae
Synchiropus kiyoae
Synchiropus kuiteri
Synchiropus laddi
Synchiropus minutulus
Synchiropus postulus
Synchiropus randalli
Synchiropus rosulentus
Synchiropus springeri
Subgenus *Synchiropus (Anaoroides)* – (taxonomic decision of FRICKE, 1983b: 681)
Synchiropus zamboanganus
Subgenus *Synchiropus (Orbonymus)* – (taxonomic decision of FRICKE, 1983b: 684)
Synchiropus rameus.

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